

indestro tools



Indestro Manufacturing Corp.
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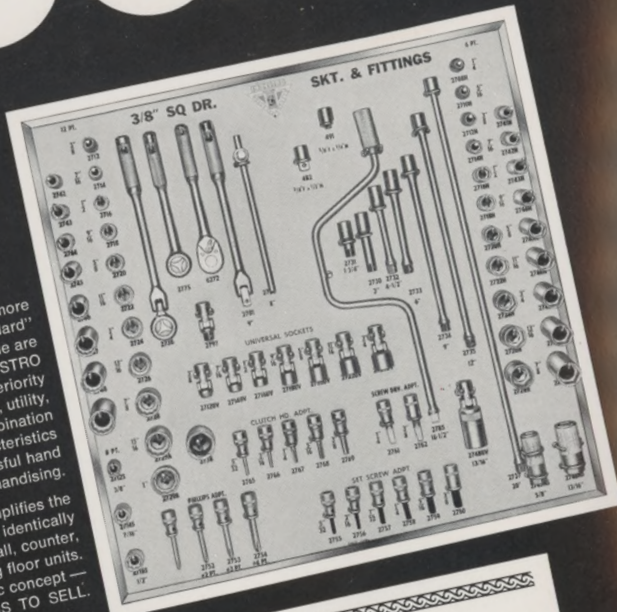
CATALOG NO. 55-M

indestro ^{super}

INDESTRO Super is more than a trade name, it's a "standard" by which quality and value are measured, industrywide. INDESTRO Super translated, means superiority in design, construction, finish, utility, wear and life. A rare combination of inherent and saleable characteristics vital in today's successful hand tool merchandising.

The display shown, exemplifies the entire INDESTRO Super line of identically colored displays for wall, counter, gondola, island and revolving floor units. Each reflects the same basic concept —

TO SHOW IS TO SELL.
INDESTRO Super displays do that job — best!



• GUARANTEE •

Indestro Products are fully guaranteed against imperfections in workmanship and material, except those products indicated by a star (*) which, because of their unique design, are not guaranteed. Free replacement will be made of any imperfect tool upon its return to our factory.

The guarantee does not apply if inspection shows that the tool has been worn out from use, or has been abused by hammering, or used on undersized nuts, or ground or design changed, or used for purposes other than that for which it was designed. Our liability under all warranties, expressed or implied, shall be limited to the replacement or repair of our products.

-the premium quality line

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1/4" SQ. DRIVE SOCKETS & ATTACHMENTS

Forged from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

REVERSIBLE RATCHET

Round head design with finger tip reversing cap. Ratcheting mechanism has 52 teeth for fast and positive action. Comfortable oval grip handle. Exceeds government torque specifications. Length 4 3/4".

†NO. 2875

STD. PKG. 3—PKG. WT. 0.65 lb.

INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2875 Reversible Ratchet. Unit can be quickly and easily replaced. Instruction booklet furnished with each ratchet.

NO. 2875-8

STD. PKG. 1—PKG. WT. 0.13 lb.

REVERSIBLE RATCHET

Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle provides comfortable non-slip grip. Length 5".

†NO. 6072

STD. PKG. 3—PKG. WT. 0.96 lb.

INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6072 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

NO. 6072-8

STD. PKG. 1—PKG. WT. 0.12 lb.

SWING HEAD HANDLE

Provides extra leverage needed to turn those stubborn nuts and bolts. Drive end swivels on steel pin; ball and spring tension hold drive end at desired angle. Oval Grip handle design. Length 6".

†NO. 2850

STD. PKG. 4—PKG. WT. 0.62 lb.

SPIN-FLEX HANDLE

This tool has a flexible shaft for reaching into areas that are otherwise inaccessible. Strong, laminated steel shaft that flexes to desired angle, yet provides positive drive action. Shock-proof handle. Length 7".

†NO. 2879

STD. PKG. 4—PKG. WT. 0.73 lb.

SPINNER HANDLES

Small drivers used for spinning nuts on and off. Ideal for use in close quarters. Shock-proof handle.

†NO. 2872—4" Length

STD. PKG. 4—PKG. WT. 0.46 lb.

†NO. 2873—6" Length

STD. PKG. 4—PKG. WT. 0.62 lb.

ADAPTOR—1/4" Female x 3/8" Male

Adapts 3/8" Square Drive Sockets for use with 1/4" Square Drive Attachments.

†NO. 481

STD. PKG. 4—PKG. WT. 0.13 lb.

UNIVERSAL JOINT

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 1-5/16".

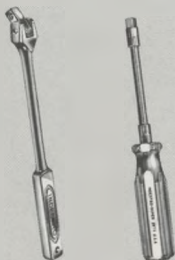
†NO. 2836

STD. PKG. 3—PKG. WT. 0.13 lb.



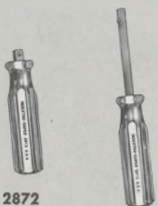
2875

6072



2850

2879



2872

2873



481

2836

1/4" SQ. DRIVE SOCKETS, ATTACHMENTS & SETS



Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

EXTENSIONS

Two lengths of extensions offered to meet different conditions.

†NO. 2832—3" Length STD. PKG. 4—PKG. WT. 0.34 lb.

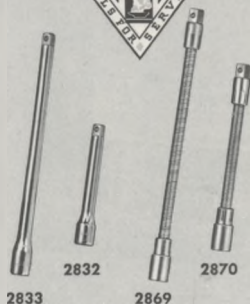
†NO. 2833—6" Length STD. PKG. 4—PKG. WT. 0.66 lb.

FLEXIBLE EXTENSIONS

Very handy attachments to reach into areas where a regular extension cannot be used. Strong, laminated steel that flexes to desired angle, yet provides positive drive action.

†NO. 2869—6" Length STD. PKG. 4—PKG. WT. 0.42 lb.

†NO. 2870—4" Length STD. PKG. 4—PKG. WT. 0.33 lb.



†REGULAR SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
4 POINT				
2806S	3/16"	15/16"	4	0.13
2807S	7/32"	15/16"	4	0.13
8 POINT				
2808S	1/4"	15/16"	4	0.13
2810S	5/16"	15/16"	4	0.25
2812S	3/8"	15/16"	4	0.25
6 POINT				
2806	3/16"	15/16"	6	0.13
2807	7/32"	15/16"	6	0.13
2808	1/4"	15/16"	6	0.13
2809	9/32"	15/16"	6	0.13
2810	5/16"	15/16"	6	0.13
2811	11/32"	15/16"	6	0.13
2812	3/8"	15/16"	6	0.25
2814	7/16"	15/16"	6	0.25
2816	1/2"	15/16"	6	0.25
12 POINT				
2808T	1/4"	15/16"	6	0.13
2809T	9/32"	15/16"	6	0.13
2810T	5/16"	15/16"	6	0.13
2811T	11/32"	15/16"	6	0.13
2812T	3/8"	15/16"	6	0.25
2814T	7/16"	15/16"	6	0.25
2816T	1/2"	15/16"	6	0.25

†DEEP SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
6 POINT				
2806D	3/16"	2"	6	0.31
2807D	7/32"	2"	6	0.38
2808D	1/4"	2"	6	0.38
2809D	9/32"	2"	6	0.39
2810D	5/16"	2"	6	0.40
2811D	11/32"	2"	6	0.40
2812D	3/8"	2"	6	0.55
2814D	7/16"	2"	6	0.63
2816D	1/2"	2"	6	0.63
12 POINT				
2808TD	1/4"	2"	6	0.38
2809TD	9/32"	2"	6	0.39
2810TD	5/16"	2"	6	0.40
2811TD	11/32"	2"	6	0.40
2812TD	3/8"	2"	6	0.55
2814TD	7/16"	2"	6	0.63
2816TD	1/2"	2"	6	0.63

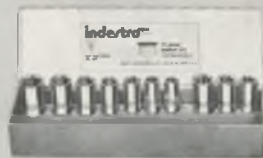
11 PIECE SOCKET SET

No.	Size	No.	Size	No.	Size
2806	1/4" 6 Pt. Skt.	2812	3/8" 6 Pt. Skt.	2810S	5/16" 8 Pt. Skt.
2809	9/32" 6 Pt. Skt.	2814	7/16" 6 Pt. Skt.	2812S	3/8" 8 Pt. Skt.
2810	5/16" 6 Pt. Skt.	2816	1/2" 6 Pt. Skt.	2873	6" Spinner Handle
2811	11/32" 6 Pt. Skt.	2808S	1/4" 8 Pt. Skt.		

NO. 7600A Set In Plastic Box STD. PKG. 1—PKG. WT. 0.75 lb.

NO. 9947 Plastic Box Only—Size 7-1/8" x 2-3/16" x 1-3/8"

STD. PKG. 1—PKG. WT. 0.25 lb.



†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-641

7600A



1/4" SQUARE DRIVE SOCKET SETS

15 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2806	3/16" 6 Pt. Skt.	2811	11/32" 6 Pt. Skt.	2810S	5/16" 8 Pt. Skt.
2807	7/32" 6 Pt. Skt.	2812	3/8" 6 Pt. Skt.	2812S	3/8" 8 Pt. Skt.
2808	1/4" 6 Pt. Skt.	2814	7/16" 6 Pt. Skt.	2832	3" Extension
2809	9/32" 6 Pt. Skt.	2816	1/2" 6 Pt. Skt.	2873	6" Spinner Handle
2810	5/16" 6 Pt. Skt.	2808S	1/4" 8 Pt. Skt.	2875	Reversible Ratchet

NO. 7602A Set In Metal Box

STD. PKG. 1—PKG. WT. 1.69 lbs.

NO. 9702R Metal Box Only—Size 6-13/16" x 3" x 1-1/4"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.66 lb.



7602A

13 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2808T	1/4" 12 Pt. Skt.	2814T	7/16" 12 Pt. Skt.	2812S	3/8" 8 Pt. Skt.
2809T	9/32" 12 Pt. Skt.	2816T	1/2" 12 Pt. Skt.	2832	3" Extension
2810T	5/16" 12 Pt. Skt.	2808S	1/4" 8 Pt. Skt.	2873	6" Spinner Handle
2811T	11/32" 12 Pt. Skt.	2810S	5/16" 8 Pt. Skt.	2875	Reversible Ratchet
2812T	3/8" 12 Pt. Skt.				

NO. 7603 Set In Metal Box

STD. PKG. 1—PKG. WT. 1.50 lbs.

NO. 9702R Metal Box Only—Size 6-13/16" x 3" x 1-1/4"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.66 lb.



7603

9 PIECE EXTRA DEEP SOCKET SET

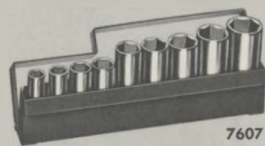
No.	Size & Description	No.	Size & Description	No.	Size & Description
2806D	3/16" 6 Pt. Skt.	2809D	9/32" 6 Pt. Skt.	2812D	3/8" 6 Pt. Skt.
2807D	7/32" 6 Pt. Skt.	2810D	5/16" 6 Pt. Skt.	2814D	7/16" 6 Pt. Skt.
2808D	1/4" 6 Pt. Skt.	2811D	11/32" 6 Pt. Skt.	2816D	1/2" 6 Pt. Skt.

NO. 7607 Set In Metal Tray

STD. PKG. 1—PKG. WT. 1.00 lb.

NO. 9950R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.25 lb.



7607

14 PIECE M.P.I. SOCKET SET

In Metal Box with Plastic Insert

No.	Size & Description	No.	Size & Description	No.	Size & Description
2806	3/16" 6 Pt. Skt.	2811	11/32" 6 Pt. Skt.	2812S	3/8" 8 Pt. Skt.
2807	7/32" 6 Pt. Skt.	2812	3/8" 6 Pt. Skt.	2832	3" Extension
2808	1/4" 6 Pt. Skt.	2814	7/16" 6 Pt. Skt.	2873	6" Spinner Handle
2809	9/32" 6 Pt. Skt.	2808S	1/4" 8 Pt. Skt.	2875	Reversible Ratchet
2810	5/16" 6 Pt. Skt.	2810S	5/16" 8 Pt. Skt.		

NO. N7620 Set In Metal Box

STD. PKG. 1—PKG. WT. 1.69 lbs.

NO. 9716R Metal Box Only—Size 6-7/8" x 5-1/16" x 1"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.81 lb.



N7620

3/8" SQ. DRIVE SOCKET ATTACHMENTS

Forged from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

REVERSIBLE RATCHET

Round head design with finger tip reversing cap. Ratcheting mechanism has 52 teeth for fast and positive action. New "bite" every 7°. Round, knurled handle for comfortable non-slip grip. Length 7 1/2".

†NO. 2775

STD. PKG. 3—PKG. WT. 1.75 lbs.

INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 2775 and No. 2736 Reversible Ratchet. Assembly instructions furnished.

NO. 2775-8

STD. PKG. 1—PKG. WT. 0.12 lb.

REVERSIBLE RATCHET

Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses by turning control lever. Round, knurled handle provides comfortable non-slip grip. Length 7 1/2".

†NO. 6272

STD. PKG. 3—PKG. WT. 2.12 lbs.

INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6272 Reversible Ratchet. Assembly instructions furnished with each unit.

NO. 6272-8

STD. PKG. 1—PKG. WT. 0.18 lb.

*SWIVEL HEAD REVERSIBLE RATCHET

A specially designed tool for use in working around obstructions. Ratchet swivels 90° in both directions. Ratcheting mechanism has 52 teeth. Round, knurled handle provides comfortable non-slip grip. Length 10".

*NO. 2736

STD. PKG. 3—PKG. WT. 2.48 lbs.

*SWIVEL HEAD RATCHET "CARDED"

One No. 2736 Ratchet, described above, mounted on an attractive "self-sell" cord. Hole is provided for hanging on wire rack or other point of purchase display.

*NO. 2736C

STD. PKG. 3—PKG. WT. 3.00 lbs.

*Due to the unique design, this tool is not guaranteed.

SWING HEAD HANDLE

Provides extra leverage needed to break loose those stubborn nuts and bolts. Round, knurled handle. Length 9".

†NO. 2781

STD. PKG. 3—PKG. WT. 1.84 lbs.

EXTENSIONS

For use in reaching nuts and bolts that are not readily accessible. Available in the following lengths.

†NO. 2730—Length 3"

STD. PKG. 4—PKG. WT. 0.75 lb.

†NO. 2731—Length 1 3/4"

STD. PKG. 4—PKG. WT. 0.50 lb.

†NO. 2732—Length 4 1/2"

STD. PKG. 4—PKG. WT. 0.82 lb.

†NO. 2733—Length 6"

STD. PKG. 4—PKG. WT. 0.98 lb.

†NO. 2734—Length 9"

STD. PKG. 4—PKG. WT. 1.43 lbs.

†NO. 2735—Length 12"

STD. PKG. 4—PKG. WT. 1.81 lbs.

†NO. 2737—Length 20"

STD. PKG. 4—PKG. WT. 2.61 lbs.

SLIDE "T" HANDLE

Head can be located at any position on bar. Length 8".

†NO. 2763

STD. PKG. 2—PKG. WT. 0.75 lbs.

SPEEDER HANDLE

Convenient when speed and reach are required. Length 16 1/2".

†NO. 2785

STD. PKG. 3—PKG. WT. 3.00 lbs.

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-641





3/8" SQ. DRIVE SOCKETS AND ATTACHMENTS

Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

ADAPTOR— $\frac{3}{8}$ " Female x $\frac{1}{2}$ " Male

Adapts $\frac{1}{2}$ " Square Drive Sockets for use with $\frac{3}{8}$ " Square Drive Attachments.
†NO. 482

STD. PKG. 4—PKG. WT. 0.36 lb.

ADAPTOR— $\frac{1}{4}$ " Male x $\frac{3}{8}$ " Female

Adapts $\frac{1}{4}$ " Square Drive Sockets for use with $\frac{3}{8}$ " Square Drive Attachments.
†NO. 491

STD. PKG. 4—PKG. WT. 0.25 lb.

UNIVERSAL JOINT

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 1-13/16".
†NO. 2797

STD. PKG. 3—PKG. WT. 0.38 lb.

OIL PRESSURE SENDING SOCKET

A specially designed socket for use on electric oil sending switches. 1-1/16" single hexagon opening. Overall length 2".
NO. 2738

STD. PKG. 4—PKG. WT. 1.50 lbs.

†REGULAR SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
6 POINT				
2708H	1/4"	1-1/16"	6	0.30
2710H	5/16"	1-1/16"	6	0.31
2712H	3/8"	1-1/16"	6	0.34
2714H	7/16"	1-1/16"	6	0.36
2716H	1/2"	1-1/16"	6	0.42
2718H	9/16"	1-1/8"	6	0.53
2720H	5/8"	1-1/8"	6	0.59
2722H	11/16"	1-1/8"	6	0.78
2724H	3/4"	1-1/8"	6	0.89
2726H	13/16"	1-3/16"	6	1.03
2728H	7/8"	1-1/4"	6	1.04
8 POINT				
2712S	3/8"	1-1/16"	4	0.26
2714S	7/16"	1-1/8"	4	0.37
2716S	1/2"	1-1/8"	4	0.45
12 POINT				
2712	3/8"	1-1/16"	6	0.23
2714	7/16"	1-1/16"	6	0.33
2716	1/2"	1-1/16"	6	0.44
2718	9/16"	1-1/16"	6	0.50
2720	5/8"	1-1/16"	6	0.50
2722	11/16"	1-1/8"	6	0.75
2724	3/4"	1-1/8"	6	0.75
2726	13/16"	1-3/16"	6	0.97
2728	7/8"	1-1/4"	6	1.35
2729A	15/16"	1-1/2"	6	1.75
2729B	1"	1-1/2"	6	1.81

†EXTRA DEEP SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
6 POINT				
2741H	3/8"	2-1/16"	6	0.64
2742H	7/16"	2-1/16"	6	0.87
2743H	1/2"	2-1/16"	6	0.88
2744H	9/16"	2-1/16"	6	0.89
2745H	5/8"	2-1/2"	6	1.31
2746H	11/16"	2-1/2"	6	1.40
2747H	3/4"	2-1/2"	6	1.79
2748H	13/16"	2-5/8"	6	2.00
2749H	7/8"	2-3/4"	6	2.80
12 POINT				
2742	7/16"	2-1/16"	6	0.70
2743	1/2"	2-1/16"	6	0.79
2744	9/16"	2-1/16"	6	0.80
2745	5/8"	2-1/2"	6	0.89
2746	11/16"	2-1/2"	6	1.36
2747	3/4"	2-1/2"	6	1.75
2748	13/16"	2-5/8"	6	1.95
2749	7/8"	2-3/4"	6	2.70

UNIVERSAL JOINT SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
2712UV	3/8"	1-11/16"	2	0.25
2714UV	7/16"	1-11/16"	2	0.30
2716UV	1/2"	1-11/16"	2	0.35
2718UV	9/16"	1-11/16"	2	0.40
2720UV	5/8"	1-11/16"	2	0.40
2722UV	11/16"	1-11/16"	2	0.40
2724UV	3/4"	1-11/16"	2	0.43

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-641

3/8" SQ. DRIVE SOCKETS AND ATTACHMENTS

Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

SPARK PLUG HOLDING SOCKET

A special, extra deep 6 point socket for removing or installing 5/8" hexagon spark plugs. Oil resistant neoprene insert securely holds plug at insulator and prevents damage. Overall length 2-3/8".

†NO. 2745HS

STD. PKG. 6—PKG. WT. 1.44 Lbs.

NEOPRENE INSERT

Replacement insert for No. 2745HS Spark Plug Socket.

NO. 2745HS-2

STD. PKG. 6—PKG. WT. 0.13 Lb.

SPARK PLUG HOLDING SOCKET

A special, extra deep 6 point socket for removing or installing 13/16" and 14MM spark plugs. Oil resistant neoprene insert securely holds plug at insulator and prevents damage. Overall length 2-7/16".

†NO. 2748HS

STD. PKG. 6—PKG. WT. 1.79 Lbs.

NEOPRENE INSERT

Replacement insert for No. 2748HS and No. 2748UV Spark Plug Sockets.

NO. 2748HS-2

STD. PKG. 6—PKG. WT. 0.13 Lbs.

UNIVERSAL JOINT SPARK PLUG SOCKET

The universal joint drive end permits use in hard-to-reach areas where a regular socket cannot be used. Spring loaded friction holds drive end at required angle to position plug. Extra deep, 6 point socket that fits 13/16" and 14MM spark plugs. Oil resistant neoprene insert securely holds plug at insulator and prevents damage. Overall length 3-1/4".

NO. 2748UV

STD. PKG. 6—PKG. WT. 2.48 Lbs.

UNIVERSAL JOINT SPARK PLUG SOCKET DISPLAY

Contains six No. 2748UV Universal Joint Spark Plug Sockets, skin-packed on attractive merchandising card. Can be displayed on self-service wire rack, wall or counter. Card is perforated between each of the six tools for easy removal. Space is provided on each card for pre-pricing.

NO. 2748UV-C6

STD. PKG. 1—PKG. WT. 2.50 Lbs.

*SCREW DRIVER ADAPTORS

COMPLETE TOOL

BIT ONLY

No.	Bit Size	Pkg. Wt. Lbs.	No.	Pkg. Wt. Lbs.
FOR SLOTTED HEAD SCREWS—Length 3"				
2761	1/4"	0.53	2761-2	0.25
2762	3/8"	0.53	2762-2	0.25
FOR PHILLIPS HEAD SCREWS—Length 2-3/4"				
2751	#1	0.25	2751-1	0.12
2752	#2	0.34	2752-1	0.12
2753	#3	0.41	2753-1	0.15
2754	#4	0.47	2754-1	0.15
FOR CLUTCH HEAD SCREWS—Length 2"				
2765	5/32"	0.25	2765-1	0.12
2768	3/16"	0.34	2768-1	0.12
2767	1/4"	0.41	2767-1	0.15
2768	5/16"	0.46	2768-1	0.15
2769	3/8"	0.47	2769-1	0.20

STD. PKG. 4

*HOLLOW HEAD SET SCREW ADAPTORS

COMPLETE TOOL

BIT ONLY

No.	Bit Size	Pkg. Wt. Lbs.	No.	Pkg. Wt. Lbs.
FOR HOLLOW HEAD SCREWS—Lgh. 2-1/16"				
2755	5/32"	0.40	2755-2	0.07
2756	3/16"	0.43	2756-2	0.10
2757	7/32"	0.43	2757-2	0.14
2758	1/4"	0.51	2758-2	0.18
2759	5/16"	0.60	2759-2	0.28
2760	3/8"	0.81	2760-2	0.40

STD. PKG. 4

*Due to the unique design, this tool is not guaranteed.



2745HS



2748HS



2748UV



2748UV-C6



2761
2762



2751
to
2754



2765
to
2769



2755
to
2760



3/8" SQ. DRIVE SOCKET SETS

7 PIECE UNIVERSAL JOINT SOCKET SET

No.	Size & Description	No.	Size & Description
2712UV	3/8" Univ. 6 Pt. Socket	2720UV	5/8" Univ. 6 Pt. Socket
2714UV	7/16" Univ. 6 Pt. Socket	2722UV	11/16" Univ. 6 Pt. Socket
2716UV	1/2" Univ. 6 Pt. Socket	2724UV	3/4" Univ. 6 Pt. Socket
2718UV	9/16" Univ. 6 Pt. Socket		

NO. 7709A Set In Metal Box

STD. PKG. 1—PKG. WT. 1.69 lbs.

NO. 9703R Metal Box Only—Size 6-13/16" x 3" x 1-1/4"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.66 lb.



7709A

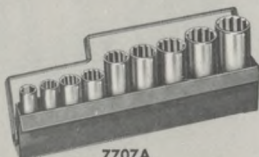
9 PIECE DEEP SOCKET SET

No.	Size & Description	No.	Size & Description
2741H	3/8" 6 Pt. Deep Socket	2746	11/16" 12 Pt. Deep Socket
2742	7/16" 12 Pt. Deep Socket	2747	3/4" 12 Pt. Deep Socket
2743	1/2" 12 Pt. Deep Socket	2748	13/16" 12 Pt. Deep Socket
2744	9/16" 12 Pt. Deep Socket	2749	7/8" 12 Pt. Deep Socket
2745	5/8" 12 Pt. Deep Socket		

NO. 7707A Set In Metal Tray

STD. PKG. 1—PKG. WT. 2.63 lbs.

NO. 9882R Metal Tray Only—Red Enamel Finish STD. PKG. 1—PKG. WT. 0.50 lb.



7707A

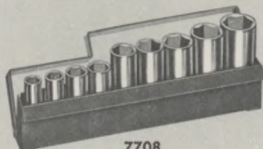
9 PIECE DEEP SOCKET SET—6 POINT

No.	Size & Description	No.	Size & Description
2741H	3/8" 6 Pt. Deep Socket	2746H	11/16" 6 Pt. Deep Socket
2742H	7/16" 6 Pt. Deep Socket	2747H	3/4" 6 Pt. Deep Socket
2743H	1/2" 6 Pt. Deep Socket	2748H	13/16" 6 Pt. Deep Socket
2744H	9/16" 6 Pt. Deep Socket	2749H	7/8" 6 Pt. Deep Socket
2745H	5/8" 6 Pt. Deep Socket		

NO. 7708 Set In Metal Tray

STD. PKG. 1—PKG. WT. 2.75 lbs.

NO. 9882R Metal Tray Only—Red Enamel Finish STD. PKG. 1—PKG. WT. 0.50 lb.



7708

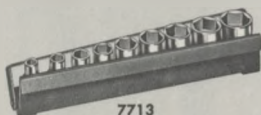
9 PIECE SOCKET SET—6 POINT

No.	Size & Description	No.	Size & Description
2708H	1/4" 6 Pt. Socket	2718H	9/16" 6 Pt. Socket
2710H	5/16" 6 Pt. Socket	2720H	5/8" 6 Pt. Socket
2712H	3/8" 6 Pt. Socket	2722H	11/16" 6 Pt. Socket
2714H	7/16" 6 Pt. Socket	2724H	3/4" 6 Pt. Socket
2716H	1/2" 6 Pt. Socket		

NO. 7713 Set In Metal Tray

STD. PKG. 1—PKG. WT. 1.13 lbs.

NO. 9839R Metal Tray Only—Red Enamel Finish STD. PKG. 1—PKG. WT. 0.50 lb.



7713

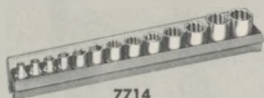
13 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
2708H	1/4" 6 Pt. Socket	2722	11/16" 12 Pt. Socket
2710H	5/16" 6 Pt. Socket	2724	3/4" 12 Pt. Socket
2712H	3/8" 6 Pt. Socket	2726	13/16" 12 Pt. Socket
2714H	7/16" 6 Pt. Socket	2728	7/8" 12 Pt. Socket
2716H	1/2" 6 Pt. Socket	2729A	15/16" 12 Pt. Socket
2718H	9/16" 6 Pt. Socket	2729B	1" 12 Pt. Socket
2720	5/8" 12 Pt. Socket		

NO. 7714 Set In Metal Tray

STD. PKG. 1—PKG. WT. 2.50 lbs.

NO. 9847R Metal Tray Only—Red Enamel Finish STD. PKG. 1—PKG. WT. 0.75 lb.



7714

3/8" SQ. DRIVE SOCKET SETS



10 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
2712H	3/8" 6 Pt. Socket	2722	11/16" 12 Pt. Socket
2714H	7/16" 6 Pt. Socket	2724	3/4" 12 Pt. Socket
2716H	1/2" 6 Pt. Socket	2748HS	13/16" Spark Plug Socket
2718H	9/16" 6 Pt. Socket	2733	6" Extension
2720	5/8" 12 Pt. Socket	2775	Reversible Ratchet

NO. 7701A Set In Metal Box

STD. PKG. 1—PKG. WT. 3.00 lbs.

NO. 9889R Metal Box Only—Size 10-1/4" x 3-1/4" x 1-13/16"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.37 lbs.



7701A

14 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
2712H	3/8" 6 Pt. Socket	2748HS	13/16" Spark Plug Socket
2714H	7/16" 6 Pt. Socket	2781	9" Swing Head Handle
2716H	1/2" 6 Pt. Socket	2730	3" Extension
2718H	9/16" 6 Pt. Socket	2733	6" Extension
2720	5/8" 12 Pt. Socket	2735	12" Extension
2722	11/16" 12 Pt. Socket	2797	Universal Joint
2724	3/4" 12 Pt. Socket	2775	Reversible Ratchet

NO. 7706 Set In Metal Box

STD. PKG. 1—PKG. WT. 4.81 lbs.

NO. 9962R Metal Box Only—Size 12-1/4" x 3-3/8" x 2"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.35 lbs.



7706

29 PIECE SOCKET SET

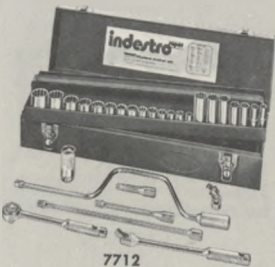
No.	Size & Description	No.	Size & Description
2712H	3/8" 6 Pt. Socket	2742	7/16" 12 Pt. Deep Socket
2714H	7/16" 6 Pt. Socket	2743	1/2" 12 Pt. Deep Socket
2716H	1/2" 6 Pt. Socket	2744	9/16" 12 Pt. Deep Socket
2718H	9/16" 6 Pt. Socket	2745	5/8" 12 Pt. Deep Socket
2720	5/8" 12 Pt. Socket	2746	11/16" 12 Pt. Deep Socket
2722	11/16" 12 Pt. Socket	2747	3/4" 12 Pt. Deep Socket
2724	3/4" 12 Pt. Socket	2748HS	13/16" Spark Plug Socket
2726	13/16" 12 Pt. Socket	2730	3" Extension
2728	7/8" 12 Pt. Socket	2733	6" Extension
2729A	15/16" 12 Pt. Socket	2735	12" Extension
2729B	1" 12 Pt. Socket	2781	9" Swing Head Handle
2712S	3/8" 8 Pt. Socket	2785	16" Speeder Handle
2714S	7/16" 8 Pt. Socket	2797	Universal Joint
2716S	1/2" 8 Pt. Socket	2775	Reversible Ratchet
2741H	3/8" 6 Pt. Deep Socket		

NO. 7712 Set In Metal Box

STD. PKG. 1—PKG. WT. 11.13 lbs.

NO. 9965R Metal Box Only—Size 19" x 5-3/4" x 4-1/2"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 5.25 lbs.



7712



3/8" SQUARE DRIVE SOCKET SETS

M.P.I. SERIES SOCKET SETS

Tools "nest" in a molded plastic tray insert. Socket sizes are imprinted on tray insert for quick and easy identification. A clear plastic cover over the tools prevents pilferage when displayed and keeps tools sparkling clean.



N7731

10 PIECE SOCKET SET CONTENTS

No.	Size & Description	No.	Size & Description	No.	Size & Description
2712H	3/8" 6 Pt. Skt.	2720	5/8" 12 Pt. Skt.	2748HS	13/16" Spark Plug Skt.
2714	7/16" 12 Pt. Skt.	2722	11/16" 12 Pt. Skt.	2733	6" Extension
2716	1/2" 12 Pt. Skt.	2724	3/4" 12 Pt. Skt.	2775	Reversible Ratchet
2718	9/16" 12 Pt. Skt.				

NO. N7731 Set In Metal Box

STD. PKG. 1—PKG. WT. 3.50 Lbs.

NO. 9717R Metal Box Only—Size 9-3/4" x 5-9/16" x 1-3/8"
Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.63 Lbs.



N7730

19 PIECE SOCKET SET CONTENTS

No.	Size & Description	No.	Size & Description	No.	Size & Description
1/4" SQUARE DRIVE		1/4" SQUARE DRIVE		3/8" SQUARE DRIVE	
2806	3/16" 6 Pt. Skt.	2873	6" Spinner Handle	2722	11/16" 12 Pt. Skt.
2807	7/32" 6 Pt. Skt.	491	1/4" M x 3/8" F Adapt.	2724	3/4" 12 Pt. Skt.
2808	1/4" 6 Pt. Skt.	3/8" SQUARE DRIVE		2748HS	13/16" Spark Plug Skt.
2809	9/32" 6 Pt. Skt.	2714	7/16" 12 Pt. Skt.	2730	3" Extension
2810	5/16" 6 Pt. Skt.	2716	1/2" 12 Pt. Skt.	2733	6" Extension
2811	11/32" 6 Pt. Skt.	2718	9/16" 12 Pt. Skt.	2775	Reversible Ratchet
2812	3/8" 6 Pt. Skt.	2720	5/8" 12 Pt. Skt.		

NO. N7730 Set In Metal Box

STD. PKG. 1—PKG. WT. 4.75 Lbs.

NO. 9718R Metal Box Only—Size 15-3/16" x 5-3/8" x 1-3/8"
Red Enamel Finish

STD. PKG. 1—PKG. WT. 2.37 Lbs.



N7732

23 PIECE SOCKET SET CONTENTS

No.	Size & Description	No.	Size & Description	No.	Size & Description
2712H	3/8" 6 Pt. Skt.	2728	7/8" 12 Pt. Skt.	2747	3/4" 12 Pt. Deep Skt.
2714	7/16" 12 Pt. Skt.	2729A	15/16" 12 Pt. Skt.	2748HS	13/16" Spark Plug Skt.
2716	1/2" 12 Pt. Skt.	2729B	1" 12 Pt. Skt.	2730	3" Extension
2718	9/16" 12 Pt. Skt.	2742	7/16" 12 Pt. Deep Skt.	2733	6" Extension
2720	5/8" 12 Pt. Skt.	2743	1/2" 12 Pt. Deep Skt.	2781	9" Swing Head Handle
2722	11/16" 12 Pt. Skt.	2744	9/16" 12 Pt. Deep Skt.	2797	Universal Joint
2724	3/4" 12 Pt. Skt.	2745	5/8" 12 Pt. Deep Skt.	2775	Reversible Ratchet
2726	13/16" 12 Pt. Skt.	2746	11/16" 12 Pt. Deep Skt.		

NO. N7732 Set In Metal Box

STD. PKG. 1—PKG. WT. 8.69 Lbs.

NO. 9719R Metal Box Only—Size 18-3/16" x 7-3/8" x 1-3/8"
Red Enamel Finish

STD. PKG. 1—PKG. WT. 3.56 Lbs.

1/2" SQUARE DRIVE SOCKET ATTACHMENTS

Forged from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

REVERSIBLE RATCHET

Round head design with finger tip reversing cap. Ratcheting mechanism has 52 teeth for fast and positive action—a new “bite” every 7°. Round, knurled handle for comfortable non-slip grip. Length 10 1/2".

†NO. 3275

STD. PKG. 3—PKG. WT. 4.18 lbs.

INNER BODY ASSEMBLY FOR NOS. 3270, 3275 and 3289 REVERSIBLE RATCHETS

Replacement ratcheting mechanism with complete instructions for installing.

NO. 3275-8

STD. PKG. 1—PKG. WT. 0.25 Lb.

EXTRA LONG REVERSIBLE RATCHET

Compact round head. 52 teeth action. Length 15 1/2".

†NO. 3289

STD. PKG. 3—PKG. WT. 5.13 lbs.

SWIVEL HEAD REVERSIBLE RATCHET

Designed to by-pass obstructions. Swivels from 0° to 90° in either direction. 52 tooth action. Length 12".

*NO. 3270

STD. PKG. 3—PKG. WT. 4.94 lbs.

CARDED RATCHET

NO. 3270C is No. 3270 Carded

STD. PKG. 3—PKG. WT. 5.00 lbs.

*Due to the unique design, this tool is not guaranteed.

REVERSIBLE RATCHET

Oval head design, 30 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle. Length 10 1/4".

†NO. 6472

STD. PKG. 3—PKG. WT. 4.25 lbs.

INNER BODY ASSEMBLY

Replacement ratcheting mechanism for No. 6472 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

NO. 6472-8

STD. PKG. 1—PKG. WT. 0.25 Lb.

REVERSIBLE RATCHET—FEMALE DRIVE

Oval head design, 30 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Length 10 1/4".

†NO. 6471

STD. PKG. 4—PKG. WT. 4.00 lbs.

RATCHET ADAPTOR PLUG

NO. 3205—1 1/4" length. Use with No. 6471 Ratchet.

STD. PKG. 4—PKG. WT. 0.34 lb.

SWING HEAD HANDLES

Ideal tool where extra leverage is needed to tighten or break loose stubborn nuts or bolts.

†NO. 3220—Length 11 1/2"

STD. PKG. 2—PKG. WT. 2.37 lbs.

†NO. 3222—Length 15 1/2"

STD. PKG. 2—PKG. WT. 2.84 lbs.

†NO. 3223—Length 18"

STD. PKG. 2—PKG. WT. 3.38 lbs.





1/2" SQ. DRIVE SOCKETS & ATTACHMENTS

Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

SLIDE "T" HANDLE

Notched so it will slide flush with end of bar. Spring loaded head holds at any position. Length 11".

†NO. 3206

STD. PKG. 4—PKG. WT. 4.00 lbs.

SPEEDER HANDLE

Designed especially for speedy nut turning. Length 17-5/8".

†NO. 3208

STD. PKG. 4—PKG. WT. 6.75 lbs.

EXTENSIONS

Handy attachments for use in reaching nuts and bolts that are not readily accessible. Forged in one piece for extra strength.

†NO. 3230—Length 2-7/16"

STD. PKG. 4—PKG. WT. 1.00 lb.

†NO. 3216—Length 5-1/2"

STD. PKG. 4—PKG. WT. 1.64 lbs.

†NO. 3211—Length 10"

STD. PKG. 4—PKG. WT. 2.68 lbs.

†NO. 3218—Length 20"

STD. PKG. 4—PKG. WT. 5.36 lbs.

ADAPTOR—1/2" Female x 3/4" Male

Adapts 3/4" Square Drive Sockets for use with 1/2" Square Drive Attachments.

†NO. 483

STD. PKG. 4—PKG. WT. 1.23 lbs.

ADAPTOR—1/2" Female x 3/8" Male

Adapts 3/8" Square Drive Sockets for use with 1/2" Square Drive Attachments.

†NO. 492

STD. PKG. 4—PKG. WT. 0.58 lb.

UNIVERSAL JOINT

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 2-9/32".

†NO. 3217

STD. PKG. 4—PKG. WT. 1.00 lb.

SPARK PLUG HOLDING SOCKET

A special, extra deep 6 point socket for removing or installing 13/16" and 14MM hexagon spark plugs. Oil resistant neoprene insert securely holds plug at insulator and prevents breakage. Overall length 2-3/4".

†NO. 3026HS

STD. PKG. 6—PKG. WT. 1.50 lbs.

NEOPRENE INSERT

Replacement insert for No. 3026HS Spark Plug Socket.

NO. 3026HS-2

STD. PKG. 6—PKG. WT. 0.13 lb.

SPARK PLUG HOLDING SOCKET

A special, extra deep 6 point socket for removing or installing 7/8" hexagon spark plugs. Oil resistant neoprene insert securely holds plug at insulator and prevents breakage. Overall length 3-1/4".

†NO. 3028HS

STD. PKG. 6—PKG. WT. 3.15 lbs.

NEOPRENE INSERT

Replacement insert for No. 3028HS Spark Plug Socket.

NO. 3028HS-2

STD. PKG. 6—PKG. WT. 0.13 lb.

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-641

1/2" SQUARE DRIVE SOCKETS

Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

DRAG LINK SOCKET

Designed especially for adjusting drag links. Can also be used as a heavy duty screw driver. Bit size .150" thick x 15/16" wide.

†NO. 3213

STD. PKG. 4—PKG. WT. 0.62 Lb.

FORD CONNECTING ROD SOCKET

A specially designed socket with a thin tapered nose for use on the older Ford V8 engines. Size 9/16", 6 point.

*NO. 618X

STD. PKG. 6—PKG. WT. 0.93 Lb.

*Due to the unique design, this tool is not guaranteed.

†6 POINT DEEP SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
3016H	1/2"	3-1/4"	6	1.90
3018H	9/16"	3-1/4"	6	1.96
3020H	5/8"	3-1/4"	6	1.98
3022H	11/16"	3-1/4"	6	2.14
3024H	3/4"	3-1/4"	6	2.60
3026H	13/16"	3-1/4"	6	3.12
3028H	7/8"	3-1/4"	6	3.15
3030H	15/16"	3-1/4"	6	3.31
3032H	1"	3-1/4"	6	3.47
3034H	1-1/16"	3-1/4"	6	3.50
3036H	1-1/8"	3-1/4"	6	3.55
3040H	1-1/4"	3-1/4"	6	3.60

†12 POINT DEEP SOCKETS

3016	1/2"	3-1/4"	6	1.90
3018	9/16"	3-1/4"	6	1.96
3020	5/8"	3-1/4"	6	1.98
3022	11/16"	3-1/4"	6	2.14
3024	3/4"	3-1/4"	6	2.60
3026	13/16"	3-1/4"	6	3.12
3028	7/8"	3-1/4"	6	3.15
3030	15/16"	3-1/4"	6	3.31
3032	1"	3-1/4"	6	3.47
3034	1-1/16"	3-1/4"	6	3.50
3036	1-1/8"	3-1/4"	6	3.55
3040	1-1/4"	3-1/4"	6	3.60

Extra Thin Deep Socket

*3026T	13/16"	3-1/4"	6	2.22
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*Due to the unique design, this tool is not guaranteed

†6 POINT SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
1212H	3/8"	1-1/2"	6	0.63
1214H	7/16"	1-1/2"	6	0.68
1216H	1/2"	1-1/2"	6	0.72
1218H	9/16"	1-1/2"	6	0.87
1220H	5/8"	1-9/16"	6	0.90
1222H	11/16"	1-9/16"	6	0.90
1224H	3/4"	1-9/16"	6	1.35
1226H	13/16"	1-5/8"	6	1.35
1228H	7/8"	1-21/32"	6	1.55
1230H	15/16"	1-21/32"	6	1.77
1232H	1"	1-21/32"	6	2.27
1234H	1-1/16"	1-21/32"	6	2.70
1236H	1-1/8"	1-21/32"	6	2.78
1240H	1-1/4"	1-21/32"	6	3.22

†8 POINT SOCKETS

1212S	3/8"	1-7/16"	4	0.50
1214S	7/16"	1-15/32"	4	0.53
1216S	1/2"	1-15/32"	4	0.57
1218S	9/16"	1-15/32"	4	0.73
1220S	5/8"	1-15/32"	4	1.00
1222S	11/16"	1-15/32"	4	1.08
1224S	3/4"	1-15/32"	4	1.40
1226S	13/16"	1-17/32"	4	1.77
1228S	7/8"	1-19/32"	4	2.11

†12 POINT SOCKETS

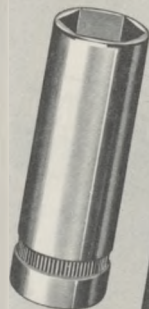
1214	7/16"	1-1/2"	6	0.65
1216	1/2"	1-1/2"	6	0.71
1218	9/16"	1-1/2"	6	0.85
1219	19/32"	1-9/16"	6	0.91
1220	5/8"	1-9/16"	6	0.95
1222	11/16"	1-9/16"	6	1.00
1224	3/4"	1-9/16"	6	1.31
1225	25/32"	1-5/8"	6	1.40
1226	13/16"	1-5/8"	6	1.48
1228	7/8"	1-21/32"	6	1.66
1230	15/16"	1-21/32"	6	2.25
1232	1"	1-21/32"	6	2.30
1234	1-1/16"	1-21/32"	6	2.68
1236	1-1/8"	1-21/32"	6	2.71
1240	1-1/4"	1-21/32"	6	3.25



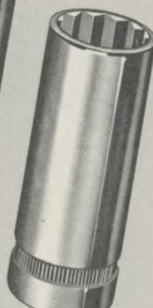
618X



3213



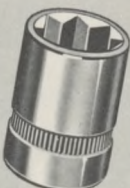
3016H
to
3040H



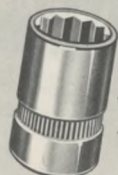
3016
to
3040



1212H
to
1240H



1212S
to
1228S

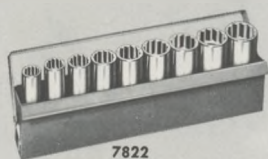


1214
to
1240



1/2" SQUARE DRIVE SOCKET SETS

9 PC. 12 PT. EXTRA DEEP SOCKET SET



7822

No.	Size & Description	No.	Size & Description	No.	Size & Description
3016	1/2" 12 Pt. Dp.Skt.	3022	11/16" 12 Pt. Dp.Skt.	3028	7/8" 12 Pt. Dp.Skt.
3018	9/16" 12 Pt. Dp.Skt.	3024	3/4" 12 Pt. Dp.Skt.	3030	15/16" 12 Pt. Dp.Skt.
3020	5/8" 12 Pt. Dp.Skt.	3026	13/16" 12 Pt. Dp.Skt.	3032	1" 12 Pt. Dp.Skt.

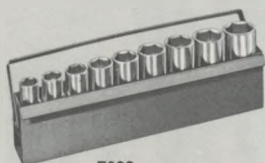
NO. 7822 Set In Metal Tray

STD. PKG. 1—PKG. WT. 4.88 lbs.

NO. 9842R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.25 lbs.

9 PC. 6 PT. EXTRA DEEP SOCKET SET



7823

No.	Size & Description	No.	Size & Description	No.	Size & Description
3016H	1/2" 6 Pt. Dp.Skt.	3022H	11/16" 6 Pt. Dp.Skt.	3028H	7/8" 6 Pt. Dp.Skt.
3018H	9/16" 6 Pt. Dp.Skt.	3024H	3/4" 6 Pt. Dp.Skt.	3030H	15/16" 6 Pt. Dp.Skt.
3020H	5/8" 6 Pt. Dp.Skt.	3026H	13/16" 6 Pt. Dp.Skt.	3032H	1" 6 Pt. Dp.Skt.

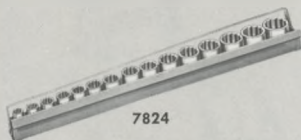
NO. 7823 Set In Metal Tray

STD. PKG. 1—PKG. WT. 4.75 lbs.

NO. 9842R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.25 lbs.

15 PIECE SOCKET SET



7824

No.	Size & Description	No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Skt.	1222	11/16" 12 Pt. Skt.	1230	15/16" 12 Pt. Skt.
1216	1/2" 12 Pt. Skt.	1224	3/4" 12 Pt. Skt.	1232	1" 12 Pt. Skt.
1218	9/16" 12 Pt. Skt.	1225	25/32" 12 Pt. Skt.	1234	1-1/16" 12 Pt. Skt.
1219	19/32" 12 Pt. Skt.	1226	13/16" 12 Pt. Skt.	1236	1-1/8" 12 Pt. Skt.
1220	5/8" 12 Pt. Skt.	1228	7/8" 12 Pt. Skt.	1240	1-1/4" 12 Pt. Skt.

NO. 7824 Set In Metal Tray

STD. PKG. 1—PKG. WT. 5.13 lbs.

NO. 9883R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.37 lbs.

12 PIECE SOCKET SET



7803A

No.	Size & Description	No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Skt.	1222	11/16" 12 Pt. Skt.	1230	15/16" 12 Pt. Skt.
1216	1/2" 12 Pt. Skt.	1224	3/4" 12 Pt. Skt.	1232	1" 12 Pt. Skt.
1218	9/16" 12 Pt. Skt.	1226	13/16" 12 Pt. Skt.	3216	5-1/2" Extension
1220	5/8" 12 Pt. Skt.	1228	7/8" 12 Pt. Skt.	3275	Reversible Ratchet

NO. 7803A Set In Metal Box

STD. PKG. 1—PKG. WT. 7.59 lbs.

NO. 9962R Metal Box Only—12 1/4" x 3 3/8" x 2"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 1.35 lbs.

1/2" SQUARE DRIVE SOCKET SETS



16 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Skt.	1224	3/4" 12 Pt. Skt.	1234	1-1/16" 12 Pt. Skt.
1216	1/2" 12 Pt. Skt.	1226	13/16" 12 Pt. Skt.	1236	1-1/8" 12 Pt. Skt.
1218	9/16" 12 Pt. Skt.	1228	7/8" 12 Pt. Skt.	1240	1-1/4" 12 Pt. Skt.
1220	5/8" 12 Pt. Skt.	1230	15/16" 12 Pt. Skt.	3216	5-1/2" Extension
1222	11/16" 12 Pt. Skt.	1232	1" 12 Pt. Skt.	3222	15-1/2" Swg. Hd. Hdle.
				3275	Reversible Ratchet

NO. 7805A Set in Metal Box

STD. PKG. 1—PKG. WT. 8.50 Lbs.

NO. 9713R Metal Box Only—15-3/4" x 4-1/8" x 1-13/16"
Red Enamel Finish

STD. PKG. 1—PKG. WT. 2.25 Lbs.



32 PIECE SOCKET SET

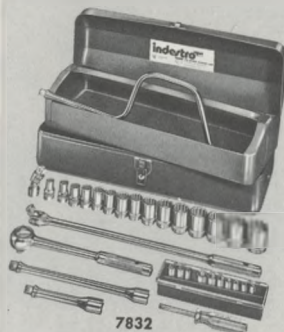
No.	Size & Description	No.	Size & Description	No.	Size & Description
1/4" SQUARE DRIVE		1/2" SQUARE DRIVE		1/2" SQUARE DRIVE	
2808	1/4" 6 Pt. Skt.	1214	7/16" 12 Pt. Skt.	1234	1-1/16" 12 Pt. Skt.
2809	9/32" 6 Pt. Skt.	1218	1/2" 12 Pt. Skt.	1236	1-1/8" 12 Pt. Skt.
2810	5/16" 6 Pt. Skt.	1218	9/16" 12 Pt. Skt.	1240	1-1/4" 12 Pt. Skt.
2811	11/32" 6 Pt. Skt.	1218	19/32" 12 Pt. Skt.	3216	5-1/2" Extension
2812	3/8" 6 Pt. Skt.	1220	5/8" 12 Pt. Skt.	3211	10" Extension
2814	7/16" 6 Pt. Skt.	1222	11/16" 12 Pt. Skt.	3217	Universal Joint
2816	1/2" 6 Pt. Skt.	1224	3/4" 12 Pt. Skt.	3223	18" Swg. Hd. Hdle.
2808S	1/4" 8 Pt. Skt.	1225	25/32" 12 Pt. Skt.	3208	17-5/8" Speeder
2810S	5/16" 8 Pt. Skt.	1226	13/16" 12 Pt. Skt.	3275	Reversible Ratchet
2812S	3/8" 8 Pt. Skt.	1228	7/8" 12 Pt. Skt.		
2873	6" Spinner Handle	1230	15/16" 12 Pt. Skt.		
9947	Plastic Tool Box	1232	1" 12 Pt. Skt.		

NO. 7832 Set in Metal Box

STD. PKG. 1—PKG. WT. 17.63 Lbs.

NO. 9549R Metal Box Only—19" x 7 1/2" x 6 1/2" x 6 1/2"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 7.12 Lbs.



33 PIECE SOCKET WRENCH & TOOL SET

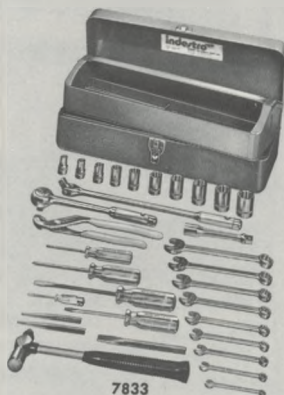
No.	Size & Description	No.	Size & Description	No.	Size & Description
1/2" SQUARE DRIVE		SCREW DRIVERS		COMBINATION WRENCHES	
1214	7/16" 12 Pt. Skt.	136	1/8" x 2"	7675	1/4"
1216	1/2" 12 Pt. Skt.	3714	3/16" x 4"	7685	5/16"
1218	9/16" 12 Pt. Skt.	3726	1/4" x 6"	7715	3/8"
1220	5/8" 12 Pt. Skt.	4681	#1 Phillips	7725	7/16"
1222	11/16" 12 Pt. Skt.	4682	#2 Phillips	7735	1/2"
1224	3/4" 12 Pt. Skt.			7745	9/16"
1226	13/16" 12 Pt. Skt.	MISCELLANEOUS TOOLS		7755	5/8"
1228	7/8" 12 Pt. Skt.	980-88	8 oz. Ball Peen Hammer	7765	1 1/16"
1230	15/16" 12 Pt. Skt.	1901	1/2" x 5 3/4" Cold Chsl.	7775	3/4"
1232	1" 12 Pt. Skt.	1950	3/32 x 4 1/2" Tpr. Pch.		
3216	5-1/2" Extension	1970	4" Center Punch		
3222	15-1/2" Swg. Hd. Hdle.	9035	Hacksaw		
3275	Reversible Ratchet	3442	10" Groove Jt. Pliers		

NO. 7833 Set in Metal Box

STD. PKG. 1—PKG. WT. 16.75 Lbs.

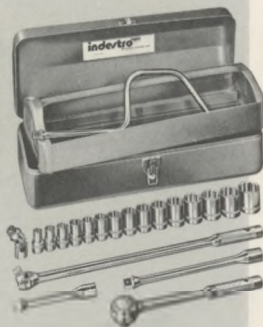
NO. 9549R Metal Box Only—19" x 7 1/2" x 6 1/2" x 6 1/2"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 7.12 Lbs.





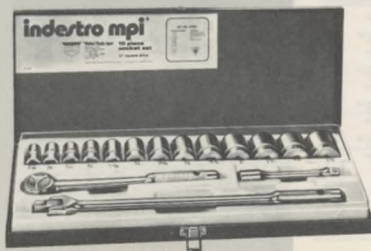
1/2" SQUARE DRIVE SOCKET SETS



7809



N7840



N7841

21 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Socket	1232	1" 12 Pt. Socket
1218	1/2" 12 Pt. Socket	1234	1-1/16" 12 Pt. Socket
1218	9/16" 12 Pt. Socket	1238	1-1/8" 12 Pt. Socket
1219	19/32" 12 Pt. Socket	1240	1-1/4" 12 Pt. Socket
1220	5/8" 12 Pt. Socket	3216	5-1/2" Extension
1222	11/16" 12 Pt. Socket	3211	10" Extension
1224	3/4" 12 Pt. Socket	3217	Universal Joint
1225	25/32" 12 Pt. Socket	3223	18" Swing Head Hdle.
1226	13/16" 12 Pt. Socket	3208	17-5/8" Speeder
1228	7/8" 12 Pt. Socket	3275	Reversible Ratchet
1230	15/16" 12 Pt. Socket		

NO. 7809 Set In Metal Box STD. PKG. 1—PKG. WT. 17.13 lbs.

NO. 9549R Metal Box Only—19" x 7 1/2" x 6 1/2"
Red Enamel Finish STD. PKG. 1—PKG. WT. 7.12 lbs.

M.P.I. SERIES SOCKET SETS

Tools "nest" in a molded plastic tray insert. Socket sizes are imprinted on tray insert for quick and easy identification. A clear plastic cover over the tools prevents pilferage when displayed and keeps tools sparkling clean.

13 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Socket	1228	7/8" 12 Pt. Socket
1218	1/2" 12 Pt. Socket	1230	15/16" 12 Pt. Socket
1218	9/16" 12 Pt. Socket	1232	1" 12 Pt. Socket
1220	5/8" 12 Pt. Socket	3026HS	13/16" Spark Plug Socket
1222	11/16" 12 Pt. Socket	3216	5-1/2" Extension
1224	3/4" 12 Pt. Socket	3275	Reversible Ratchet
1226	13/16" 12 Pt. Socket		

NO. N7840 Set In Metal Box STD. PKG. 1—PKG. WT. 7.19 lbs.

NO. 9720R Metal Box Only — 13-1/8" x 6-11/16" x 1-3/16"—Red Enamel Finish STD. PKG. 1—PKG. WT. 2.63 lbs.

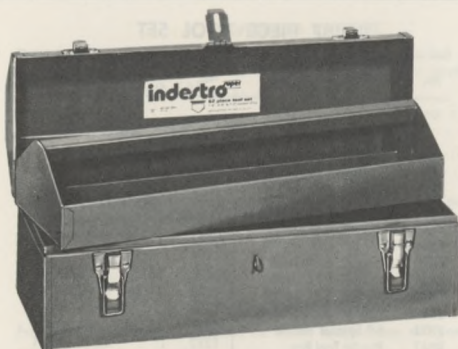
16 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description
1214	7/16" 12 Pt. Socket	1232	1" 12 Pt. Socket
1216	1/2" 12 Pt. Socket	1234	1-1/16" 12 Pt. Socket
1218	9/16" 12 Pt. Socket	1238	1-1/8" 12 Pt. Socket
1220	5/8" 12 Pt. Socket	1240	1-1/4" 12 Pt. Socket
1222	11/16" 12 Pt. Socket	3216	5-1/2" Extension
1224	3/4" 12 Pt. Socket	3222	15-1/2" Swing Head Handle
1226	13/16" 12 Pt. Socket	3275	Reversible Ratchet
1228	7/8" 12 Pt. Socket		
1230	15/16" 12 Pt. Socket		

NO. N7841 Set In Metal Box STD. PKG. 1—PKG. WT. 10.75 lbs.

NO. 9721R Metal Box Only — 18-1/16" x 7-1/16" x 1-13/16"—Red Enamel Finish , STD. PKG. 1—PKG. WT. 3.50 lbs.

1/4"-3/8-1/2" SQUARE DRIVE TOOL SET



62 PIECE SOCKET WRENCH & TOOL SET

No.	Size & Description	No.	Size & Description
1/4" SQUARE DRIVE			
2808	1/4" 6 Pt. Socket		
2809	9/32" 6 Pt. Socket		
2810	5/16" 6 Pt. Socket		
2811	11/32" 6 Pt. Socket		
2812	3/8" 6 Pt. Socket		
2814	7/16" 6 Pt. Socket		
2816	1/2" 6 Pt. Socket		
2808S	1/4" 8 Pt. Socket		
2810S	5/16" 8 Pt. Socket		
2812S	3/8" 8 Pt. Socket		
2873	6" Spinner Handle		
9947	Plastic Tool Box		
3/8" SQUARE DRIVE			
2712	3/8" 12 Pt. Socket		
2714	7/16" 12 Pt. Socket		
2716	1/2" 12 Pt. Socket		
2718	9/16" 12 Pt. Socket		
2720	5/8" 12 Pt. Socket		
2722	11/16" 12 Pt. Socket		
2724	3/4" 12 Pt. Socket		
2730	3" Extension		
2733	6" Extension		
2781	9" Swing Head Handle		
2775	Reversible Ratchet		
LONG 45° BOX WRENCHES			
730	3/8" x 7/16"		
731	1/2" x 9/16"		
732B	5/8" x 3/4"		
732C	11/16" x 13/16"		
SCREW DRIVERS			
3714	3/16" x 4"		
3726	1/4" x 6"		
3721	1/4" x 1-1/4"		
46B2	#2 Phillips		

1/2" SQUARE DRIVE	
1214	7/16" 12 Pt. Socket
1216	1/2" 12 Pt. Socket
1218	9/16" 12 Pt. Socket
1220	5/8" 12 Pt. Socket
1222	11/16" 12 Pt. Socket
1224	3/4" 12 Pt. Socket
1226	13/16" 12 Pt. Socket
1228	7/8" 12 Pt. Socket
1230	15/16" 12 Pt. Socket
1232	1" 12 Pt. Socket
1234	1-1/16" 12 Pt. Socket
1236	1-1/8" 12 Pt. Socket
1240	1-1/4" 12 Pt. Socket
3216	5-1/2" Extension
3211	10" Extension
3222	15-1/2" Swing Head Hdle.
3208	17-5/8" Speeder
3275	Reversible Ratchet
OPEN END WRENCHES	
1020	1/4" x 5/16"
1723	3/8" x 7/16"
1725B	1/2" x 9/16"
1727	9/16" x 5/8"
1029C	11/16" x 13/16"
1731A	3/4" x 7/8"
1033C	15/16" x 1"

MISCELLANEOUS TOOLS	
1902	5/8" x 6" Cold Chisel
1940	3/32" x 4 1/2" Pin Punch
1951	1/8" x 6 1/4" Taper Punch
1971	5" Center Punch
980-16B	16 oz. Ball Pein Hammer
2097A	8" Slip Joint Plier
3587A	8" Adjustable Wrench



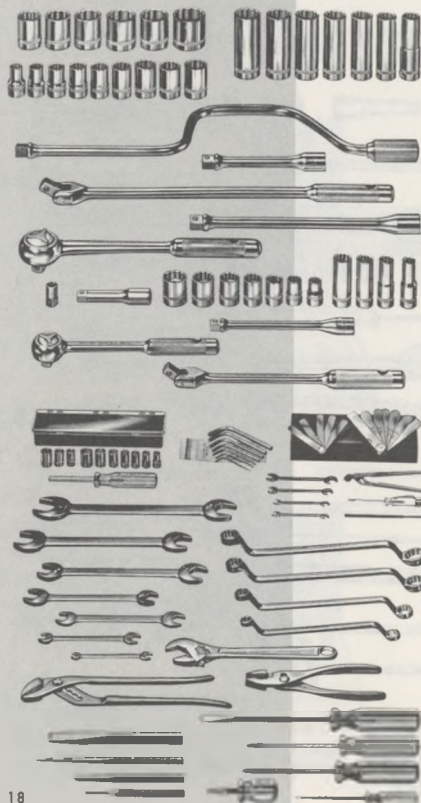
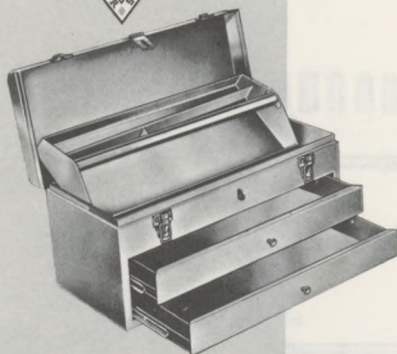
NO. 7834 Set In Metal Box STD. PKG. 1—PKG. WT. 28.69 Lbs.

NO. 9967R Metal Box Only—19 3/4" x 7" x 8"
Red Enamel Finish STD. PKG. 1—PKG. WT. 8.00 Lbs.



1/4"-3/8-1/2" SQUARE DRIVE TOOL SET

87 PIECE TOOL SET



No.	Size & Description	No.	Size & Description
1/4" SQUARE DRIVE		1/2" SQUARE DRIVE	
2808	1/4" 6 Pt. Socket	1214	7/16" 12 Pt. Socket
2809	9/32" 6 Pt. Socket	1216	1/2" 12 Pt. Socket
2810	5/16" 6 Pt. Socket	1218	9/16" 12 Pt. Socket
2811	11/32" 6 Pt. Socket	1219	19/32" 12 Pt. Socket
2812	3/8" 6 Pt. Socket	1220	5/8" 12 Pt. Socket
2814	7/16" 6 Pt. Socket	1222	11/16" 12 Pt. Socket
2816	1/2" 6 Pt. Socket	1224	3/4" 12 Pt. Socket
2808S	1/4" 8 Pt. Socket	1225	25/32" 12 Pt. Socket
2810S	5/16" 8 Pt. Socket	1226	13/16" 12 Pt. Socket
2812S	3/8" 8 Pt. Socket	1228	7/8" 12 Pt. Socket
2873	6" Spinner Handle	1230	15/16" 12 Pt. Socket
9947	Plastic Tool Box	1232	1" 12 Pt. Socket
3/8" SQUARE DRIVE		1234	1-1/16" 12 Pt. Socket
2712	3/8" 12 Pt. Socket	1236	1-1/8" 12 Pt. Socket
2714	7/16" 12 Pt. Socket	1240	1-1/4" 12 Pt. Socket
2716	1/2" 12 Pt. Socket	3020	5/8" 12 Pt. Deep Skt.
2718	9/16" 12 Pt. Socket	3022	11/16" 12 Pt. Deep Skt.
2720	5/8" 12 Pt. Socket	3024	3/4" 12 Pt. Deep Skt.
2722	11/16" 12 Pt. Socket	3026	13/16" 12 Pt. Deep Skt.
2724	3/4" 12 Pt. Socket	3028	7/8" 12 Pt. Deep Skt.
2741H	3/8" 6 Pt. Deep Skt.	3030	15/16" 12 Pt. Deep Skt.
2742	7/16" 12 Pt. Deep Skt.	3032	1" 12 Pt. Deep Skt.
2743	1/2" 12 Pt. Deep Skt.	3216	5-1/2" Extension
2744	9/16" 12 Pt. Deep Skt.	3211	10" Extension
2781	9" Swing Head Handle	3208	17-5/8" Speeder
2730	3" Extension	3222	15-1/2" Swing Head Hdle.
2733	6" Extension	3275	Reversible Ratchet
2775	Reversible Ratchet	IGNITION TOOLS	
481	3/8" F x 1/4" M Adaptor	136	Midget Screw Driver
OPEN END WRENCHES		168	Feeler Gauge
1020	1/4" x 5/16"	174	Ignition Point File
1723	3/8" x 7/16"	892	15/64" x 13/64" Wr.
1725B	1/2" x 9/16"	894	1/4" x 7/32" Wr.
1727	9/16" x 5/8"	896	5/16" x 9/32" Wr.
1029C	11/16" x 13/16"	897	11/32" x 3/8" Wr.
1731A	3/4" x 7/8"	3410	Ignition Plier
1033C	15/16" x 1"	9703R	Metal Tool Box
LONG 45° BOX WRENCHES		MISCELLANEOUS TOOLS	
730	3/8" x 7/16"	166	Feeler Gauge
731	1/2" x 9/16"	199A	7 Pc. Set Screw Wr. Set
732B	5/8" x 3/4"	1902	5/8" x 6" Cold Chisel
732C	11/16" x 13/16"	1940	3/32" x 4 1/4" Pin Punch
SCREW DRIVERS		1951	1/8" x 6 1/4" Taper Punch
3703	1/8" x 3-1/16"	1971	5" Center Punch
3714	3/16" x 4"	3403A	Water Pump Plier
3721	1/4" x 1-1/4"	3436	6" Utility Plier
3726	1/4" x 6"	3587A	8" Adjustable Wrench
4682	#2 Phillips		

NO. 7835 Set in Metal Tool Chest

STD. PKG. 1—PKG. WT. 42.00 Lbs.

NO. 9958 Tool Chest Only—20" x 9 1/2" x 8 3/8"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 20.00 Lbs.

3/4" SQ. DRIVE SOCKETS & ATTACHMENTS



REVERSIBLE RATCHET

Oval head design, 24 tooth ratcheting mechanism. Ratchet reverses instantly by turning thumb control lever. Round, knurled handle provides comfortable non-slip grip. Length 18".

†NO. 2372

STD. PKG. 1—PKG. WT. 5.63 lbs.

2366

2372

INNER BODY ASSEMBLY

Replacement mechanism for No. 2372 Reversible Ratchet. Complete instructions for removing and installing furnished with each unit.

NO. 2372-8

STD. PKG. 1—PKG. WT. 1.88 lbs.

SWING HEAD HANDLE

Provides extra leverage needed to break loose those stubborn nuts and bolts.

†NO. 2366—Length 19"

STD. PKG. 1—PKG. WT. 3.64 lbs.

EXTENSIONS

†NO. 2362—Length 4"

STD. PKG. 3—PKG. WT. 1.66 lbs.

†NO. 2364—Length 8"

STD. PKG. 3—PKG. WT. 3.32 lbs.

†NO. 2365—Length 16"

STD. PKG. 3—PKG. WT. 6.65 lbs.

SLIDE "T" HANDLE

Used principally with extensions to spin nuts either on or off. Length 18".

†NO. 2363

STD. PKG. 1—PKG. WT. 3.43 lbs.

UNIVERSAL JOINT

Handy attachment for turning nuts and bolts in hard-to-reach work areas. Spring loaded friction holds drive end in desired position. Overall length 3-11/16".

†NO. 2396

STD. PKG. 1—PKG. WT. 1.25 lbs.

ADAPTOR—3/4" Female x 1/2" Male

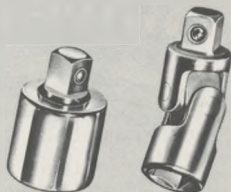
Adapts 1/2" Square Drive Sockets for use with 3/4" Square Drive Attachments.

†NO. 493

STD. PKG. 4—PKG. WT. 1.68 lbs.

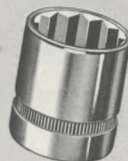
†12 POINT SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. lbs.	No.	Size	Length	Std. Pkg.	Pkg. Wt. lbs.
2228	7/8"	1-13/16"	2	0.86	2248	1-1/2"	2-5/16"	2	2.50
2230	15/16"	1-13/16"	2	0.91	2252	1-5/8"	2-7/16"	2	2.89
2232	1"	1-13/16"	2	1.00	2254	1-11/16"	2-1/2"	2	3.30
2234	1-1/16"	1-15/16"	2	1.03	2256	1-3/4"	2-9/16"	2	3.84
2236	1-1/8"	2"	2	1.13	2258	1-13/16"	2-5/8"	2	3.68
2238	1-3/16"	2"	2	1.24	2260	1-7/8"	2-11/16"	2	3.93
2240	1-1/4"	2-1/16"	2	1.41	2264	2"	2-13/16"	2	5.40
2242	1-5/16"	2-1/8"	2	1.75	2268	2-1/8"	2-15/16"	2	6.11
2244	1-3/8"	2-3/16"	2	1.91	2270	2-3/16"	3"	2	6.45
2246	1-7/16"	2-1/4"	2	2.30	2272	2-1/4"	3-1/16"	2	6.50



493

2396



2228
to
2272

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-641



3/4" SQUARE DRIVE SOCKET SETS

11 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2234	1-1/16" 12 Pt. Socket	2244	1-3/8" 12 Pt. Socket	2364	8" Extension
2236	1-1/8" 12 Pt. Socket	2246	1-7/16" 12 Pt. Socket	2365	16" Extension
2240	1-1/4" 12 Pt. Socket	2248	1-1/2" 12 Pt. Socket	2363	18" Slide T Hdle.
2242	1-5/16" 12 Pt. Socket	2252	1-5/8" 12 Pt. Socket		

NO. 7908 In Metal Box

STD. PKG. 1—PKG. WT. 24.63 Lbs.

NO. 9827R Metal Box Only—22-1/4" x 7-11/16" x 3-5/16"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 9.37 Lbs.

12 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2236	1-1/8" 12 Pt. Socket	2246	1-7/16" 12 Pt. Socket	2260	1-7/8" 12 Pt. Socket
2240	1-1/4" 12 Pt. Socket	2248	1-1/2" 12 Pt. Socket	2264	2" 12 Pt. Socket
2242	1-5/16" 12 Pt. Socket	2252	1-5/8" 12 Pt. Socket	2364	8" Extension
2244	1-3/8" 12 Pt. Socket	2256	1-3/4" 12 Pt. Socket	2372	Rev. Ratchet

NO. 7914 In Metal Box

STD. PKG. 1—PKG. WT. 27.81 Lbs.

NO. 9827R Metal Box Only—22-1/4" x 7-11/16" x 3-5/16"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 9.37 Lbs.

19 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2232	1" 12 Pt. Socket	2248	1-1/2" 12 Pt. Socket	2362	4" Extension
2234	1-1/16" 12 Pt. Socket	2252	1-5/8" 12 Pt. Socket	2364	8" Extension
2236	1-1/8" 12 Pt. Socket	2254	1-11/16" 12 Pt. Socket	2365	16" Extension
2240	1-1/4" 12 Pt. Socket	2256	1-3/4" 12 Pt. Socket	2363	18" Slide T Hdle.
2242	1-5/16" 12 Pt. Socket	2258	1-13/16" 12 Pt. Socket	2372	Rev. Ratchet
2244	1-3/8" 12 Pt. Socket	2260	1-7/8" 12 Pt. Socket		
2246	1-7/16" 12 Pt. Socket	2284	2" 12 Pt. Socket		

NO. 7913A In Metal Box

STD. PKG. 1—PKG. WT. 39.38 Lbs.

NO. 9827R Metal Box Only—22-1/4" x 7-11/16" x 3-5/16"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 9.37 Lbs.

25 PIECE SOCKET SET

No.	Size & Description	No.	Size & Description	No.	Size & Description
2228	7/8" 12 Pt. Socket	2248	1-1/2" 12 Pt. Socket	2272	2-1/4" 12 Pt. Socket
2230	15/16" 12 Pt. Socket	2252	1-5/8" 12 Pt. Socket	2362	4" Extension
2232	1" 12 Pt. Socket	2254	1-11/16" 12 Pt. Socket	2364	8" Extension
2234	1-1/16" 12 Pt. Socket	2256	1-3/4" 12 Pt. Socket	2365	16" Extension
2236	1-1/8" 12 Pt. Socket	2258	1-13/16" 12 Pt. Socket	2366	19" Swing Hd. Hdle.
2240	1-1/4" 12 Pt. Socket	2260	1-7/8" 12 Pt. Socket	2366	Universal Joint
2242	1-5/16" 12 Pt. Socket	2264	2" 12 Pt. Socket	2372	Rev. Ratchet
2244	1-3/8" 12 Pt. Socket	2268	2-1/8" 12 Pt. Socket		
2246	1-7/16" 12 Pt. Socket	2270	2-3/16" 12 Pt. Socket		

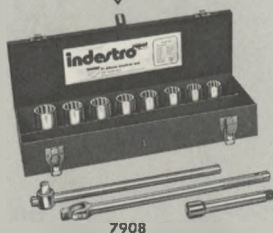
NO. 7915 Set In Metal Box

STD. PKG. 1—PKG. WT. 50.25 Lbs.

NO. 9827R Metal Box Only—22-1/4" x 7-11/16" x 3-5/16"

Red Enamel Finish

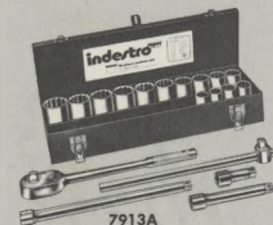
STD. PKG. 1—PKG. WT. 9.37 Lbs.



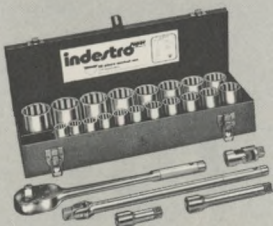
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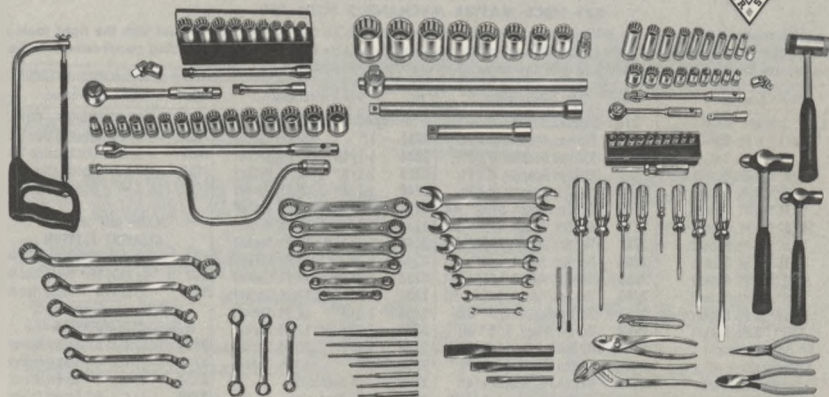


7913A



7915

SOCKET & TOOL SET



127 PIECE TOOL SET—1/4", 3/8", 1/2" & 3/4" SQUARE DRIVE

No.	Size & Description	No.	Size & Description	No.	Size & Description	No.	Size & Description
3/8" SQUARE DRIVE		1/2" SQUARE DRIVE		RATCHETING BOX WRENCHES		SCREW DRIVERS	
2712H	3/8" 6 Pt. Socket	1214	7/16" 12 Pt. Socket	0701	1/4" x 5/16"	3703	1/8" x 3" Square Blade
2714H	7/16" 6 Pt. Socket	1218	1/2" 12 Pt. Socket	0702	3/8" x 7/16"	3714	3/16" x 4" Square Blade
2716H	1/2" 6 Pt. Socket	1218	9/16" 12 Pt. Socket	0703	1/2" x 9/16"	3726	1/4" x 6" Square Blade
2718H	9/16" 6 Pt. Socket	1219	19/32" 12 Pt. Socket	0704	5/8" x 11/16"	3738	5/16" x 8" Square Blade
2720H	5/8" 6 Pt. Socket	1220	5/8" 12 Pt. Socket	0705	5/8" x 3/4"	4681	No. 1 Pt. Phillips Type
2722	11/16" 12 Pt. Socket	1222	11/16" 12 Pt. Socket	0708	13/16" x 7/8"	4682	No. 2 Pt. Phillips Type
2724	3/4" 12 Pt. Socket	1224	3/4" 12 Pt. Socket	OPEN END WRENCHES		4683	No. 3 Pt. Phillips Type
2726	13/16" 12 Pt. Socket	1225	25/32" 12 Pt. Socket	1020	1/4" x 5/16"	4684	No. 4 Pt. Phillips Type
2728	7/8" 12 Pt. Socket	1228	13/16" 12 Pt. Socket	1723	3/8" x 7/16"	SCREW STARTERS	
2781	9" Swing Head Handle	1228	7/8" 12 Pt. Socket	1725B	1/2" x 9/16"	4787	5" Slotted Type
2730	3" Extension	1230	15/16" 12 Pt. Socket	1027	19/32" x 11/16"	4790	5" Phillips Type
2775	Reversible Ratchet	1232	1" 12 Pt. Socket	1729	5/8" x 3/4"	HAMMERS	
2797	Universal Joint	1234	1-1/16" 12 Pt. Socket	1731B	13/16" x 7/8"	980-8B	8 oz. Ball Peen
491	1/4" M x 3/8" F Adaptor	1236	1-1/8" 12 Pt. Socket	1033C	15/16" x 1"	980-16B	16 oz. Ball Peen
3/4" SQUARE DRIVE		1240	1-1/4" 12 Pt. Socket	LONG 45° BOX WRENCHES		989	1 lb. Soft Face
2234	1-1/16" 12 Pt. Socket	483	1/2" F x 3/4" M Adaptor	730	3/8" x 7/16"	PUNCHES & CHISELS	
2236	1-1/8" 12 Pt. Socket	3217	Universal Joint	731	1/2" x 9/16"	1900	3/8" x 5" Cold Chisel
2240	1-1/4" 12 Pt. Socket	3208	17-5/8" Speeder	731A	9/16" x 5/8"	1902	5/8" x 6" Cold Chisel
2242	1-5/16" 12 Pt. Socket	3216	5-1/2" Extension	732C	11/16" x 13/16"	1904	7/8" x 8" Cold Chisel
2244	1-3/8" 12 Pt. Socket	3211	10" Extension	733A	3/4" x 7/8"	1940	3/32" x 4 1/2" Pin Punch
2246	1-7/16" 12 Pt. Socket	3223	18" Swing Head Handle	735	15/16" x 1"	1942	5/32" x 4 1/2" Pin Punch
2248	1-1/2" 12 Pt. Socket	3275	Reversible Ratchet	SHORT 15° BOX WRENCHES		1944	3/16" x 6 1/2" Pin Punch
2252	1-5/8" 12 Pt. Socket	PLIERS		751	3/8" x 7/16"	1950	3/32" x 4 1/2" Taper Punch
2364	8" Extension	3403A	Water Pump	752	1/2" x 9/16"	1951	1/8" x 6 1/2" Taper Punch
2365	16" Extension	2111	Long Nose	753A	5/8" x 3/4"	1952	3/16" x 7" Taper Punch
2363	18" Slide T Handle	2107	7" Diagonal Cutting	HACK SAW		1971	5" Center Punch
SOCKET SETS		2097A	8" Slip Joint	9035	Adjustable—10" to 12"		

7800A	1/4" Sq. Drive—11 Piece	Page 3
7707A	3/8" Sq. Drive—9 Piece Deep	Page 8
7822	1/2" Sq. Drive—9 Piece Deep	Page 14

NO. 7916—127 PIECE TOOL SET

STD. PKG. 1—PKG. WT. 55.00 Lbs.

NO. 7917—115 PIECE TOOL SET—Same as No. 7916, less 3/4" Square Drive Sockets, attachments and No. 483 Adaptor

STD. PKG. 1—PKG. WT. 40.00 Lbs.

For 2 or 6 Drawer Chests and Roller Cabinets available for use with this set, see page 28.



MASTER MECHANIC TOOL SET

235 PIECE MASTER MECHANIC'S TOOL SET

The complete tool set to handle the difficult jobs. You not only do the job better with less effort, but with the right tools at your finger tips you save valuable time. Each tool has been carefully selected to fill your demanding requirements. Indestro's top quality reputation has made this set, the envy of every Master Mechanic.

No.	Size & Description	No.	Size & Description	No.	Size & Description	No.	Size & Description
1/4" SQUARE DRIVE		3/8" SQUARE DRIVE—CONT'D.		3/4" SQUARE DRIVE		OBSTRUCTION WRENCHES—CONT'D.	
2806	3/16" 6 Pt. Socket	2751	Phillips Adaptor #1 Pt.	2232	1" 12 Pt. Socket	1827	9/16" Obstruction Wr.
2807	7/32" 6 Pt. Socket	2752	Phillips Adaptor #2 Pt.	2234	1-1/16" 12 Pt. Socket	1829	5/8" Obstruction Wr.
2808	1/4" 6 Pt. Socket	2753	Phillips Adaptor #3 Pt.	2236	1-1/8" 12 Pt. Socket	1830	11/16" Obstruction Wr.
2809	9/32" 6 Pt. Socket	2754	Phillips Adaptor #4 Pt.	2240	1-1/4" 12 Pt. Socket	1831	3/4" Obstruction Wr.
2810	5/16" 6 Pt. Socket	2755	Set Scr. Adapt. 5/32" Bit	2242	1-5/16" 12 Pt. Socket		
2811	11/32" 6 Pt. Socket	2756	Set Scr. Adapt. 3/16" Bit	2244	1-3/8" 12 Pt. Socket	FLARE NUT WRENCH	
2812	3/8" 6 Pt. Socket	2757	Set Scr. Adapt. 7/32" Bit	2246	1-7/16" 12 Pt. Socket	STRAIGHT PATTERN	
2814	7/16" 6 Pt. Socket	2758	Set Scr. Adapt. 1/4" Bit	2248	1-1/2" 12 Pt. Socket	368	3/8x7/16" Flare Nut Wr.
2816	1/2" 6 Pt. Socket	2759	Set Scr. Adapt. 5/16" Bit	2252	1-5/8" 12 Pt. Socket	369	1/2x9/16" Flare Nut Wr.
2818	1/4" 8 Pt. Socket	2760	Set Scr. Adapt. 3/8" Bit	2254	1-11/16" 12 Pt. Socket	370	5/8x3/4" Flare Nut Wr.
2810S	5/16" 8 Pt. Socket	2761	Sc. Dr. Adapt. 1/4" Bit	2256	1-3/4" 12 Pt. Socket		
2812S	3/8" 8 Pt. Socket	2762	Sc. Dr. Adapt. 3/8" Bit	2258	1-13/16" 12 Pt. Socket		
2873	6" Spinner Handle	2765	Clutch Hd. Adapt. 5/32" Bit	2260	1-7/8" 12 Pt. Socket		
2832	3" Extension	2766	Clutch Hd. Adapt. 3/16" Bit	2264	2" 12 Pt. Socket		
2875	Reversible Ratchet	2767	Clutch Hd. Adapt. 1/4" Bit	2362	4" Extension		
		2768	Clutch Hd. Adapt. 5/16" Bit	2364	8" Extension		
		2769	Clutch Hd. Adapt. 3/8" Bit	2365	16" Extension		
				2363	18" Slide T Handle		
				2372	Reversible Ratchet		
3/8" SQUARE DRIVE		1/2" SQUARE DRIVE		COMBINATION WRENCHES		SCREWDRIVERS	
2712H	3/8" 6 Pt. Socket	1214	7/16" 12 Pt. Socket	7675	1/4" Combination Wr.	3703	1/8 x 3" Screw Driver
2714H	7/16" 6 Pt. Socket	1216	1/2" 12 Pt. Socket	7685	5/16" Combination Wr.	3714	3/16x 4" Screw Driver
2716H	1/2" 6 Pt. Socket	1218	9/16" 12 Pt. Socket	7715	3/8" Combination Wr.	3724	1/4 x 4" Screw Driver
2718H	9/16" 6 Pt. Socket	1219	19/32" 12 Pt. Socket	7725	7/16" Combination Wr.	3726	1/4 x 6" Screw Driver
2720H	5/8" 6 Pt. Socket	1220	5/8" 12 Pt. Socket	7735	1/2" Combination Wr.	3728	1/4 x 8" Screw Driver
2722	11/16" 12 Pt. Socket	1222	11/16" 12 Pt. Socket	7745	9/16" Combination Wr.	3730	5/16x 8" Screw Driver
2724	3/4" 12 Pt. Socket	1224	3/4" 12 Pt. Socket	7755	5/8" Combination Wr.	3749	3/8x 10" Screw Driver
2726	13/16" 12 Pt. Socket	1225	25/32" 12 Pt. Socket	7765	11/16" Combination Wr.	3721	Stubby Std. Screwdriver
2728	7/8" 12 Pt. Socket	1226	13/16" 12 Pt. Socket	7775	3/4" Combination Wr.	4681	#1 Pt. Phillips Scr. Dr.
2712S	3/8" 8 Pt. Socket	1228	7/8" 12 Pt. Socket	778	7/8" Combination Wr.	4682	#2 Pt. Phillips Scr. Dr.
2714S	7/16" 8 Pt. Socket	1230	15/16" 12 Pt. Socket	779	15/16" Combination Wr.	4683	#3 Pt. Phillips Scr. Dr.
2716S	1/2" 8 Pt. Socket	1232	1" 12 Pt. Socket	780	1" Combination Wr.	4684	#4 Pt. Phillips Scr. Dr.
2712UV	3/8" Univ. Jt. Skt.	1234	1-1/16" 12 Pt. Socket	781	1-1/16" Combination Wr.	4689	Stubby Phillips Scr. Dr.
2714UV	7/16" Univ. Jt. Skt.	1236	1-1/8" 12 Pt. Socket	782	1-1/8" Combination Wr.	4640	5/32x4" Cl. Head Scr. Dr.
2716UV	1/2" Univ. Jt. Skt.	1240	1-1/4" 12 Pt. Socket	783	1-1/4" Combination Wr.	4641	3/16x4" Cl. Head Scr. Dr.
2718UV	9/16" Univ. Jt. Skt.	3016	1/2" 12 Pt. Deep Skt.			4642	1/4" 6" Cl. Head Scr. Dr.
2720UV	5/8" Univ. Jt. Skt.	3018	9/16" 12 Pt. Deep Skt.			4772	1/4" Offset Screwdriver
2722UV	11/16" Univ. Jt. Skt.	3020	5/8" 12 Pt. Deep Skt.			4774	3/8" Offset Screwdriver
2724UV	3/4" Univ. Jt. Skt.	3022	11/16" 12 Pt. Deep Skt.			4656-12	Phillips Offset Screwdriver
2741H	3/8" 6 Pt. Deep Skt.	3024	3/4" 12 Pt. Deep Skt.			4787	Slot Type 5" Screw Starter
2742	7/16" 12 Pt. Deep Skt.	3026	13/16" 12 Pt. Deep Skt.			4790	Phillips Type 5" Scr. Start.
2743	1/2" 12 Pt. Deep Skt.	3028	7/8" 12 Pt. Deep Skt.	SHORT 45° BOX WRENCHES			
2744	9/16" 12 Pt. Deep Skt.	3030	15/16" 12 Pt. Deep Skt.	741	3/8 x 7/16" Box Wr.		
2745	5/8" 12 Pt. Deep Skt.	3032	1" 12 Pt. Deep Skt.	742	1/2" x 9/16" Box Wr.		
2746	11/16" 12 Pt. Deep Skt.	3034	1-1/16" 12 Pt. Deep Skt.	743A	5/8" x 3/4" Box Wr.		
2747	3/4" 12 Pt. Deep Skt.	3036	1-1/8" 12 Pt. Deep Skt.				
2748	13/16" 12 Pt. Deep Skt.	3040	1-1/4" 12 Pt. Deep Skt.	RATCHETING BOX WRENCHES			
2748HS	13/16" Sp. Pg. Hold. Skt.	3026HS	13/16" Sp. Pg. Hold. Skt.	0701	1/4 x 5/16" Rat. Box Wr.		
2730	3" Extension	3217	Universal Joint	0702	3/8 x 7/16" Rat. Box Wr.		
2733	6" Extension	3223	18" Swing Hd. Handle	0703	1/2 x 9/16" Rat. Box Wr.		
2735	12" Extension	3230	2-7/16" Extension	0704	5/8 x 11/16" Rat. Box Wr.		
2797	Universal Joint	3216	5-1/2" Extension	0705	5/8 x 3/4" Rat. Box Wr.		
2785	16-1/2" Speeder	3211	10" Extension	0708	13/16 x 7/8" Rat. Box Wr.		
2781	9" Swing Hd. Hdle.	3218	20" Extension				
2775	Reversible Ratchet	3208	17-5/8" Speeder	OBSTRUCTION WRENCHES			
2763	Slide T Handle	3275	Reversible Ratchet	1821	3/8" Obstruction Wr.		
				1823	7/16" Obstruction Wr.		
				1825	1/2" Obstruction Wr.		

NO. 7918 Set

NO. 7919 Set (Same as above less 3/4" Square Drive Sockets and Fittings)

STD. PKG. 1—PKG. WT. 98.00 lbs.

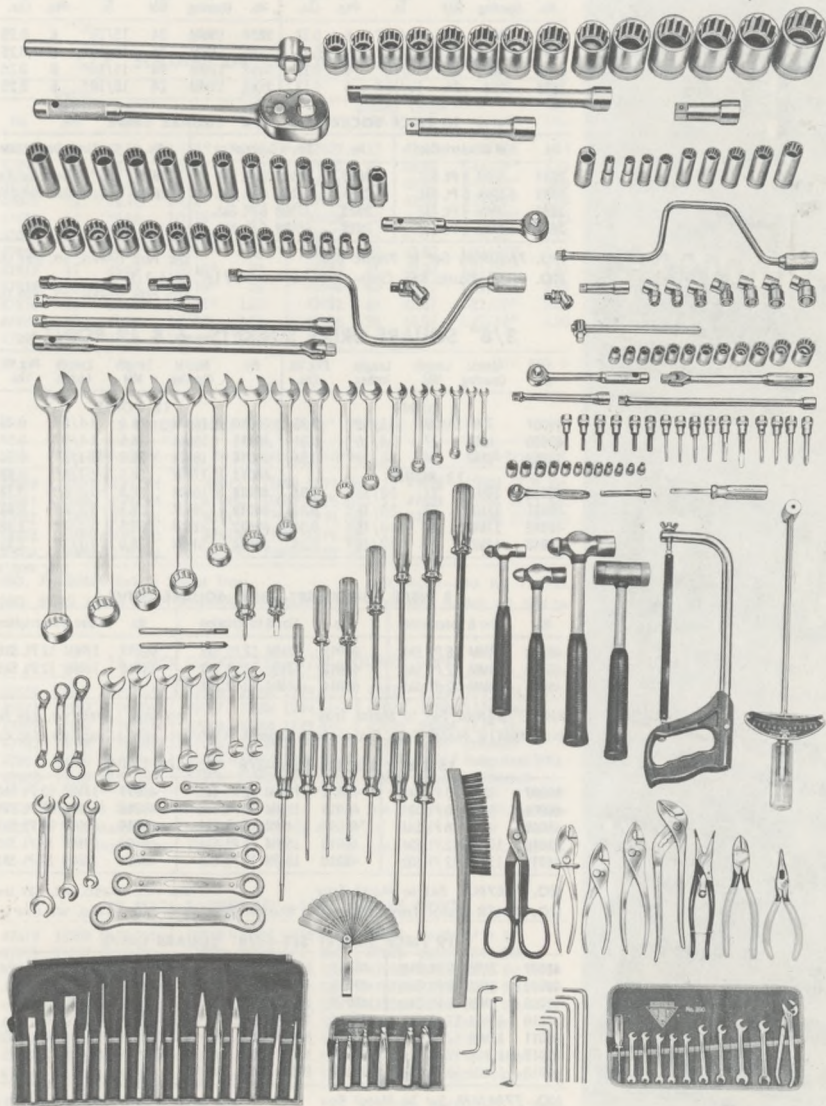
STD. PKG. 1—PKG. WT. 66.00 lbs.

For 2 or 6 Drawer Chests and Roller Cabinets Available for use with this set, see page 28.

MASTER MECHANIC TOOL SET



7918





1/4" & 3/8" SQ. DRIVE METRIC SOCKETS & SETS



2884
to
2893

1/4" SQUARE DRIVE SOCKETS—6 POINT

No.	Metric Opening	Lgth. MM	Lgth. In.	Std. Pkg. Wt. Lbs.	No.	Metric Opening	Lgth. MM	Lgth. In.	Std. Pkg. Wt. Lbs.
2884	5MM	24	15/16"	6 0.13	2890	10MM	24	15/16"	6 0.25
2885	5.5MM	24	15/16"	6 0.13	2891	11MM	24	15/16"	6 0.25
2887	7MM	24	15/16"	6 0.13	2892	12MM	24	15/16"	6 0.25
2888	8MM	24	15/16"	6 0.13	2893	13MM	24	15/16"	6 0.25

10 PIECE SOCKET SET—1/4" SQUARE DRIVE

No.	Size & Description	No.	Size & Description	No.	Size & Description
2884	5MM 6 Pt. Skt.	2890	10MM 6 Pt. Skt.	2873	6" Spinner Handle
2885	5.5MM 6 Pt. Skt.	2891	11MM 6 Pt. Skt.	2875	Reversible Ratchet
2887	7MM 6 Pt. Skt.	2892	12MM 6 Pt. Skt.		
2888	8MM 6 Pt. Skt.	2893	13MM 6 Pt. Skt.		

NO. 7630MM Set In Plastic Box

STD. PKG. 1—PKG. WT. 0.81 Lb.

NO. 9947 Plastic Box Only—7-5/16" x 2-7/16" x 1-1/8"

STD. PKG. 1—PKG. WT. 0.25 Lb.

3/8" SQUARE DRIVE SOCKETS—6 & 12 POINT

No.	Metric Opening	Length MM	Length Inches	Pkg. Wt. Lbs.	No.	Metric Opening	Length MM	Length Inches	Pkg. Wt. Lbs.
6 POINT					12 POINT				
46007	7MM	27	1-1/16"	0.25	46014	14MM	28.5	1-1/8"	0.46
46008	8MM	27	1-1/16"	0.31	46015	15MM	28.5	1-1/8"	0.54
46009	9MM	27	1-1/16"	0.34	46016	16MM	28.5	1-1/8"	0.60
12 POINT					46017	17MM	28.5	1-1/8"	0.68
46010	10MM	27	1-1/16"	0.34	46018	18MM	28.5	1-1/8"	0.74
46011	11MM	27	1-1/16"	0.34	46019	19MM	28.5	1-1/8"	0.81
46012	12MM	27	1-1/16"	0.36	46022	22MM	31.5	1-1/4"	1.38
46013	13MM	27	1-1/16"	0.38	46024	24MM	38.0	1-1/2"	2.23

STD. PKG. 6

8 PIECE SOCKET SET—3/8" SQUARE DRIVE

No.	Size & Description	No.	Size & Description	No.	Size & Description
46008	8MM 6 Pt. Skt.	46012	12MM 12 Pt. Skt.	46017	17MM 12 Pt. Skt.
46010	10MM 12 Pt. Skt.	46013	13MM 12 Pt. Skt.	46019	19MM 12 Pt. Skt.
46011	11MM 12 Pt. Skt.	46014	14MM 12 Pt. Skt.		

NO. 7784MM Set In Metal Tray

STD. PKG. 1—PKG. WT. 0.94 Lb.

NO. 9841R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.50 Lb.

15 PIECE SOCKET SET—3/8" SQUARE DRIVE

46007	7MM 6 Pt. Skt.	46012	12MM 12 Pt. Skt.	46017	17MM 12 Pt. Skt.
46008	8MM 6 Pt. Skt.	46013	13MM 12 Pt. Skt.	46018	18MM 12 Pt. Skt.
46009	9MM 6 Pt. Skt.	46014	14MM 12 Pt. Skt.	46019	19MM 12 Pt. Skt.
46010	10MM 12 Pt. Skt.	46015	15MM 12 Pt. Skt.	46022	22MM 12 Pt. Skt.
46011	11MM 12 Pt. Skt.	46016	16MM 12 Pt. Skt.	46024	24MM 12 Pt. Skt.

NO. 7787MM Set In Metal Tray

STD. PKG. 1—PKG. WT. 2.39 Lbs.

NO. 9847R Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.75 Lb.

19 PIECE SOCKET SET—3/8" SQUARE DRIVE

46007	7MM 6 Pt. Skt.	46014	14MM 12 Pt. Skt.	46024	24MM 12 Pt. Socket
46008	8MM 6 Pt. Skt.	46015	15MM 12 Pt. Skt.	2748WS	13/16" 6 Pt. Spark Plug Socket
46009	9MM 6 Pt. Skt.	46016	16MM 12 Pt. Skt.	2733	6" Extension
46010	10MM 12 Pt. Skt.	46017	17MM 12 Pt. Skt.	2781	9" Swing Head Hdl.
46011	11MM 12 Pt. Skt.	46018	18MM 12 Pt. Skt.	2775	Reversible Ratchet
46012	12MM 12 Pt. Skt.	46019	19MM 12 Pt. Skt.		
46013	13MM 12 Pt. Skt.	46022	22MM 12 Pt. Skt.		

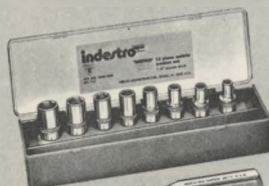
NO. 7788MM Set In Metal Box

STD. PKG. 1—PKG. WT. 5.63 Lbs.

NO. 9713R Metal Box Only—15-3/4" x 4-1/8" x 1-13/16"

STD. PKG. 1—PKG. WT. 2.25 Lbs.

Red Enamel Finish



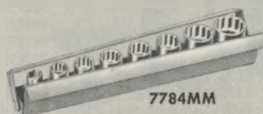
7630MM



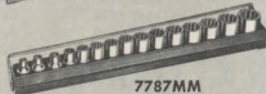
46007
to
46009



46010
to
46024



7784MM



7787MM



7788MM

1/2" SQ. DR. METRIC SOCKETS & SETS



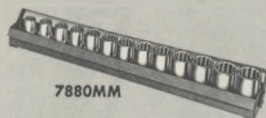
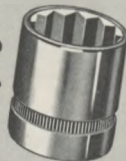
Made from **ALLOY STEEL** and heat treated for extra strength. Polished to a mirror finish and completely plated in a rich deep chrome.

1/2" SQUARE DRIVE SOCKETS—12 POINT

No.	Metric Opening MM.	Length MM.	Length	Pkg. Wt. Lbs.	No.	Metric Opening MM.	Length MM.	Length	Pkg. Wt. Lbs.
47010	10	38.10	1-1/2"	.66	47022	22	42.07	1-21/32"	1.54
47011	11	38.10	1-1/2"	.66	47023	23	42.07	1-21/32"	1.73
47012	12	38.10	1-1/2"	.63	47024	24	42.07	1-21/32"	1.83
47013	13	38.10	1-1/2"	.63	47025	25	42.07	1-21/32"	2.06
47014	14	39.69	1-9/16"	.72	47026	26	42.07	1-21/32"	2.13
47015	15	39.69	1-9/16"	.88	47027	27	42.07	1-21/32"	2.25
47016	16	39.69	1-9/16"	.89	47028	28	42.07	1-21/32"	2.44
47017	17	39.69	1-9/16"	.93	47029	29	42.07	1-21/32"	2.61
47018	18	39.69	1-9/16"	.89	47030	30	42.07	1-21/32"	2.98
47019	19	39.69	1-9/16"	1.07	47032	32	42.07	1-21/32"	3.00
47020	20	41.28	1-5/8"	1.24	47036	36	46.07	1-27/32"	5.00
47021	21	41.28	1-5/8"	1.46					

STD. PKG. 6

47010
to
47036



13 PIECE SOCKET SET—1/2" SQUARE DRIVE

No.	Size & Description	No.	Size & Description	No.	Size & Description
47010	10MM 12 Pt. Skt.	47015	15MM 12 Pt. Skt.	47020	20MM 12 Pt. Skt.
47011	11MM 12 Pt. Skt.	47016	16MM 12 Pt. Skt.	47021	21MM 12 Pt. Skt.
47012	12MM 12 Pt. Skt.	47017	17MM 12 Pt. Skt.	47022	22MM 12 Pt. Skt.
47013	13MM 12 Pt. Skt.	47018	18MM 12 Pt. Skt.		
47014	14MM 12 Pt. Skt.	47019	19MM 12 Pt. Skt.		

NO. 7880MM Set in Metal Tray

STD. PKG. 1—PKG. WT. 2.94 Lbs.

NO. 9843 Metal Tray Only—Red Enamel Finish

STD. PKG. 1—PKG. WT. 0.75 Lb.

18 PIECE SOCKET SET—1/2" SQUARE DRIVE

47010	10MM 12 Pt. Skt.	47016	16MM 12 Pt. Skt.	47022	22MM 12 Pt. Skt.
47011	11MM 12 Pt. Skt.	47017	17MM 12 Pt. Skt.	47023	23MM 12 Pt. Skt.
47012	12MM 12 Pt. Skt.	47018	18MM 12 Pt. Skt.	47024	24MM 12 Pt. Skt.
47013	13MM 12 Pt. Skt.	47019	19MM 12 Pt. Skt.	3216	5 1/4" Extension
47014	14MM 12 Pt. Skt.	47020	20MM 12 Pt. Skt.	3222	15 1/2" Swing Head Hdle.
47015	15MM 12 Pt. Skt.	47021	21MM 12 Pt. Skt.	3275	Reversible Ratchet

NO. 7885MM Set in Metal Box

STD. PKG. 1—PKG. WT. 8.19 Lbs.

NO. 9713R Metal Box Only—15-3/4" x 4-1/8" x 1-13/16"

Red Enamel Finish

STD. PKG. 1—PKG. WT. 2.25 Lbs.

27 PIECE SOCKET SET—1/2" SQUARE DRIVE

47010	10MM 12 Pt. Skt.	47019	19MM 12 Pt. Skt.	47028	28MM 12 Pt. Skt.
47011	11MM 12 Pt. Skt.	47020	20MM 12 Pt. Skt.	47029	29MM 12 Pt. Skt.
47012	12MM 12 Pt. Skt.	47021	21MM 12 Pt. Skt.	47030	30MM 12 Pt. Skt.
47013	13MM 12 Pt. Skt.	47022	22MM 12 Pt. Skt.	47032	32MM 12 Pt. Skt.
47014	14MM 12 Pt. Skt.	47023	23MM 12 Pt. Skt.	47036	36MM 12 Pt. Skt.
47015	15MM 12 Pt. Skt.	47024	24MM 12 Pt. Skt.	3216	5 1/4" Extension
47016	16MM 12 Pt. Skt.	47025	25MM 12 Pt. Skt.	3211	10" Extension
47017	17MM 12 Pt. Skt.	47026	26MM 12 Pt. Skt.	3222	15 1/2" Swing Head Hdle.
47018	18MM 12 Pt. Skt.	47027	27MM 12 Pt. Skt.	3275	Reversible Ratchet

NO. 7886MM Set in Metal Box

STD. PKG. 1—PKG. WT. 16.75 Lbs.

NO. 9549R Metal Box Only—19" x 7 1/2" x 6 1/4"

STD. PKG. 1—PKG. WT. 7.12 Lbs.





3/8" & 1/2" SQ. DRIVE IMPACT SOCKETS & FITTINGS

ALLOY STEEL sockets and fittings for power nut running and impact tools. Sockets are six point, "hot broached," straight wall design with ample bevel on nose for easy application. Holes drilled for locking pin in drive tang. Black pentrate finish.

3/8" SQUARE DRIVE IMPACT SOCKETS †6 Point Sockets

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.	No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
4360	5/16"	1-3/16"	6	0.34	4368	9/16"	1-1/4"	6	0.68
4362	3/8"	1-3/16"	6	0.37	4370	5/8"	1-1/4"	6	0.87
4364	7/16"	1-3/16"	6	0.40	4372	11/16"	1-1/4"	6	1.00
4366	1/2"	1-3/16"	6	0.56	4374	3/4"	1-1/4"	6	1.37

8 PIECE SOCKET SET

No.	Size	No.	Size	No.	Size	No.	Size
4360	5/16"	4364	7/16"	4368	9/16"	4372	11/16"
4362	3/8"	4366	1/2"	4370	5/8"	4374	3/4"

NO. 7760 Set In Metal Tray

STD. PKG. 1—PKG. WT. 1.25 Lbs.

NO. 9839 Metal Tray Only

STD. PKG. 1—PKG. WT. 0.50 Lb.

1/2" SQUARE DRIVE IMPACT SOCKETS AND FITTINGS †6 Point Sockets

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.	No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
1164	7/16"	1-1/2"	6	0.93	1176	13/16"	1-1/2"	6	1.93
1166	1/2"	1-1/2"	6	0.93	1178	7/8"	1-1/2"	6	2.12
1168	9/16"	1-1/2"	6	0.93	1180	15/16"	1-3/4"	6	2.68
1169	19/32"	1-1/2"	6	1.06	1182	1"	1-3/4"	6	2.93
1170	5/8"	1-1/2"	6	1.12	1184	1-1/16"	1-3/4"	6	3.37
1172	11/16"	1-1/2"	6	1.31	1186	1-1/8"	1-3/4"	6	3.43
1174	3/4"	1-1/2"	6	1.37	1190	1-1/4"	1-3/4"	6	3.75
1175	25/32"	1-1/2"	6	1.75					

†6 POINT DEEP SOCKETS—1/2" SQUARE DRIVE

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.	No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
1142	7/16"	3-1/4"	6	2.47	1146	11/16"	3-1/4"	6	3.01
1143	1/2"	3-1/4"	6	2.23	1147	3/4"	3-1/4"	6	3.19
1144	9/16"	3-1/4"	6	2.05	1148	13/16"	3-1/4"	6	3.79
1145	5/8"	3-1/4"	6	2.35	1149	7/8"	3-1/2"	6	4.70

1/2" SQUARE DRIVE EXTENSIONS

†NO. 1155—5" Length

STD. PKG. 4—PKG. WT. 1.95 Lbs.

†NO. 1156—10" Length

STD. PKG. 4—PKG. WT. 3.74 Lbs.

BUDD WHEEL LUG SOCKET

Made with two size openings, a 3/4" single hexagon opening at one end and 13/16" at the other. Socket length is 2-3/16"; diameter 1-3/16". Use with NO. 1196 Extension listed below.

NO. 1195

STD. PKG. 4—PKG. WT. 0.93 Lb.

LUG SOCKET EXTENSION

Extension for use with wheel lug socket. Length 2-5/8".

†NO. 1196

STD. PKG. 4—PKG. WT. 3.00 Lbs.

EXTENSION ADAPTORS

7/16" MALE HEXAGON TO 1/2" MALE SQUARE DRIVE

FITS INDEPENDENT PNEUMATIC DRIVERS

†NO. 1158—2-3/4" Length

STD. PKG. 4—PKG. WT. 0.95 Lb.

†NO. 1159—5" Length

STD. PKG. 4—PKG. WT. 1.77 Lbs.

5/8" MALE HEXAGON TO 1/2" MALE SQUARE DRIVE

FITS BLACK & DECKER and CHICAGO PNEUMATIC DRIVERS

†NO. 1160—3" Length

STD. PKG. 4—PKG. WT. 1.37 Lbs.

†NO. 1161—5" Length

STD. PKG. 4—PKG. WT. 2.45 Lbs.

UNIVERSAL JOINT—1/2" SQUARE DRIVE

For use with 1/2" Square Drive Sockets to reach into restricted areas.

†NO. 1163

STD. PKG. 2—PKG. WT. 0.80 Lb.

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-660

4360
to
4374

7760

1142
to
1149

1164
to
1190

1195

1196

1158
to
1161

1163

1/2" & 3/4" SQ. DRIVE IMPACT SOCKETS & FITTINGS



1/2" SQUARE DRIVE SOCKET SETS

8 PIECE DEEP SOCKET SET IN TRAY

No.	Size	No.	Size	No.	Size	No.	Size
1142	7/16"	1144	9/16"	1146	1 1/16"	1148	1 3/16"
1143	1/2"	1145	5/8"	1147	3/4"	1149	7/8"

NO. 7862 Set In Metal Tray
NO. 9842R Metal Tray Only

STD. PKG. 1—PKG. WT. 3.56 lbs.
STD. PKG. 1—PKG. WT. 1.00 lb.

10 PIECE SOCKET SET IN TRAY

1164	7/16"	1170	5/8"	1176	1 3/16"	1182	1"
1166	1/2"	1172	1 1/16"	1178	7/8"		
1168	9/16"	1174	3/4"	1180	1 5/16"		

NO. 7860 Set In Metal Tray
NO. 9840R Metal Tray Only

STD. PKG. 1—PKG. WT. 6.13 lbs.
STD. PKG. 1—PKG. WT. 1.00 lb.

15 PIECE SOCKET SET IN TRAY

1164	7/16"	1170	5/8"	1176	1 3/16"	1184	1-1/16"
1166	1/2"	1172	1 1/16"	1178	7/8"	1186	1-1/8"
1168	9/16"	1174	3/4"	1180	1 5/16"	1190	1-1/4"
1169	19/32"	1175	25/32"	1182	1"		

NO. 7861 Set In Metal Tray
NO. 9883R Metal Tray Only

STD. PKG. 1—PKG. WT. 8.75 lbs.
STD. PKG. 1—PKG. WT. 1.37 lbs.

3/4" SQUARE DRIVE IMPACT SOCKETS AND FITTINGS

Designed for use with Retaining Pin and "O" Rings for positive locking action.

†6 POINT STANDARD SOCKETS

†6 POINT DEEP SOCKETS

No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.	No.	Size	Length	Std. Pkg.	Pkg. Wt. Lbs.
2418	9/16"	1-3/4"	2	0.90	2418D	9/16"	3-1/4"	2	2.22
2420	5/8"	1-3/4"	2	1.24	2420D	5/8"	3-1/4"	2	2.22
2422	11/16"	1-3/4"	2	1.24	2422D	11/16"	3-1/4"	2	2.66
2424	3/4"	1-3/4"	2	1.24	2424D	3/4"	3-1/4"	2	2.66
2426	13/16"	1-7/8"	2	1.40	2426D	13/16"	3-1/4"	2	2.66
2428	7/8"	1-7/8"	2	1.40	2428D	7/8"	3-1/4"	2	2.88
2430	15/16"	1-7/8"	2	1.40	2430D	15/16"	3-1/4"	2	2.88
2432	1"	2"	2	1.40	2432D	1"	3-1/4"	2	2.88
2434	1-1/16"	2"	2	1.62	2434D	1-1/16"	3-1/4"	2	2.88
2436	1-1/8"	2-1/8"	2	1.80	2436D	1-1/8"	3-1/2"	2	3.00
2438	1-3/16"	2-1/8"	2	2.00	2438D	1-3/16"	3-1/2"	2	3.00
2440	1-1/4"	2-1/8"	2	2.00	2440D	1-1/4"	3-1/2"	2	3.25
2442	1-5/16"	2-1/4"	2	2.26	2442D	1-5/16"	3-1/2"	2	3.25
2444	1-3/8"	2-1/4"	2	2.40	2444D	1-3/8"	3-1/2"	2	3.25
2446	1-7/16"	2-1/4"	2	2.60	2446D	1-7/16"	3-1/2"	2	4.66
2448	1-1/2"	2-1/4"	2	2.88	2448D	1-1/2"	3-1/2"	2	4.75

UNIVERSAL JOINT—3/4" SQUARE DRIVE

Short coupled unit that swivels approximately 30° in either direction. Spring loaded, holds drive end at desired position. Male and female.

†NO. 2496—Length 3-5/32"

STD. PKG. 1—PKG. WT. 0.80 lb.

EXTENSIONS—3/4" SQUARE DRIVE

†NO. 2464—Length 7"

STD. PKG. 2—PKG. WT. 3.00 lbs.

†NO. 2466—Length 10"

STD. PKG. 2—PKG. WT. 5.88 lbs.

RETAINER PIN

For use with 3/4" Square Drive Impact Sockets. Made from alloy steel.

NO. 2401—Length 1-1/2"

STD. PKG. 12—PKG. WT. 0.12 lb.

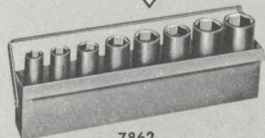
"O" RING

Holds retainer pin in 3/4" Square Drive Impact Sockets. Oil resistant neoprene.

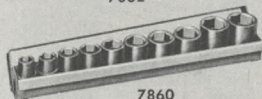
NO. 2402—Diameter 1-7/16"

STD. PKG. 12—PKG. WT. 0.12 lb.

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-660



7862



7860



7861



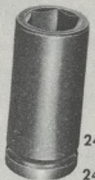
2418
to
2448



2418D
to
2428D



2496



2430D
to
2436D



2464
2466



2438D
to
2448D



2401



2402



TOOL CHESTS AND CABINETS

Heavy gauge steel construction, double width corner posts for greater rigidity. Flange welded at critical stress points increases welded area 2 to 3 times more than conventional seams. Cap-end construction keeps chest covers square and tight. Roller cabinets have one piece bottom of extra heavy reinforced steel to increase load capacity and rigidity. Smooth working drawers glide on full-suspension slides. Nickel plated hardware; red baked-on enamel finish.



9906A



9975



9908A



9907B



9958

6 DRAWER CHEST

Large size chest with full size tote tray. Cover automatically locks all drawers when closed. The drawers are varied widths and depths to enable proper assorting of tools. Heavy duty glides provide smooth action when fully loaded. Most mechanics will find that this chest has ample space for all their tools. Two heavy duty side handles provide easy handling. Full length piano hinge, staked to resist pilfering; tumbler type lock with 2 keys. Fits roller cabinets shown here.

DIMENSIONS: Width 26-1/8"; depth 12-1/8"; height 15".

NO. 9906A

STD. PKG. 1—PKG. WT. 60.50 lbs.

9 DRAWER CABINET

Designed to meet the need for extra, more flexible tool storage in plants and shops. Nine drawers, in three different sizes, are made to stay solid, square and smooth-working thru years of hard use. Heavy duty push-button lock automatically locks all drawers securely. Equipped with heavy duty, 4 inch roller bearing, wide tread casters that will move easily when fully loaded; 2 rigid casters and 2 swivel casters with brake. An excellent companion for chests shown here.

DIMENSIONS: Width 26-1/2"; depth 18-1/8"; height 34-3/4".

NO. 9975

STD. PKG. 1—PKG. WT. 150.00 lbs.

2 DRAWER CHEST

Two drawer chest with deep till in top and lift-out tray. Cover automatically locks drawers when closed. Full length piano hinge. Large and roomy tote tray has socket set divider. Tumbler type lock with 2 keys. Fits roller cabinets shown here.

DIMENSIONS: Width 26"; depth 10"; height 11-3/4".

NO. 9908A

STD. PKG. 1—PKG. WT. 37.00 lbs.

3 DRAWER CABINET

Handy deep drawer model with bottom compartment approximately 10" high by 23" wide provide ample space for safe storage of those large items. The 22" wide drawers are locked automatically when lower panel front is closed. Tumbler type lock with 2 keys. Mounted on 3" roller bearing, wide-tread casters; 2 rigid casters and 2 that swivel, with brakes for easy mobility. Holds chests shown here.

DIMENSIONS: Width 26-3/8"; depth 17-3/8"; height 29".

NO. 9907B

STD. PKG. 1—PKG. WT. 101.00 lbs.

2 DRAWER CHEST

This portable, roomy chest provides space when necessary to transport. Heavy duty construction. The two draw balls and padlock has provide safety when moving and security when left on the job. Cover automatically locks drawers when closed. The top handle enables one hand carrying.

DIMENSIONS: Length 20"; depth 8-1/2"; height 9-1/2".

NO. 9958

STD. PKG. 1—PKG. WT. 18.75 lbs.

ALLOY OPEN END WRENCHES



OPEN END WRENCHES

Forged from **ALLOY STEEL** and heat treated for extra strength. Heads are polished to a mirror finish. Handles have a satin finish. Completely plated in a rich deep chrome.

No.	Size	Length	Head Thick	Std. Pkg.	Pkg. Wt. Lbs.
1020	1/4" x 5/16"	3-7/8"	5/32"	6	0.31
120	5/16" x 11/32"	4-13/16"	3/16"	6	0.31
121	5/16" x 3/8"	4-13/16"	3/16"	6	0.31
123	3/8" x 7/16"	5"	3/16"	6	0.50
125	7/16" x 1/2"	5-15/16"	15/64"	6	0.68
125B	1/2" x 9/16"	6-1/4"	15/64"	6	1.00
127	9/16" x 5/8"	6-3/4"	1/4"	6	1.12
1027C	9/16" x 11/16"	6-3/4"	1/4"	6	1.26
1027	19/32" x 11/16"	7"	19/64"	6	1.50
1229	5/8" x 3/4"	8"	19/64"	6	1.50
1029C	11/16" x 13/16"	8-1/2"	21/64"	6	2.25
131A	3/4" x 7/8"	9-3/16"	11/32"	6	3.28
131B	13/16" x 7/8"	9-3/16"	11/32"	6	3.32
1033A	7/8" x 15/16"	10-5/8"	25/64"	6	4.00
1033C	15/16" x 1"	10-5/8"	25/64"	6	4.00
1735	1" x 1-1/8"	12-1/2"	29/64"	3	3.73
1036B	1-1/16" x 1-1/8"	12-1/2"	29/64"	3	3.80
1037	1-1/16" x 1-1/4"	12-1/2"	29/64"	3	3.90

OPEN END WRENCH SETS

6 PIECE SETS IN POUCH OR KIT

Contains six popular size wrenches ranging from 5/16" thru 1". Wrenches are chrome plated and polished. In a sturdy, vinyl roll-up kit or pouch.

No.	Size	No.	Size	No.	Size
1721	5/16" x 3/8"	1727	9/16" x 5/8"	1731A	3/4" x 7/8"
1725	7/16" x 1/2"	1029C	11/16" x 13/16"	1033C	15/16" x 1"

NO. 10004A Set in Roll-Up Kit

STD. PKG. 1—PKG. WT. 2.44 lbs.

NO. K131 Kit Only

NO. 10006PK Set in Pouch

STD. PKG. 1—PKG. WT. 2.17 lbs.

NO. K119 Pouch Only

8 PIECE SET

Contains eight popular size wrenches ranging from 1/4" thru 1-1/4". Wrenches are polished and chrome plated. Contained in a sturdy, vinyl roll-up kit with pockets for each wrench.

1020	1/4" x 5/16"	1729	5/8" x 3/4"	1735	1" x 1-1/8"
1723	3/8" x 7/16"	1029C	11/16" x 13/16"	1037	1-1/16" x 1-1/4"
1725B	1/2" x 9/16"	1033A	7/8" x 15/16"		

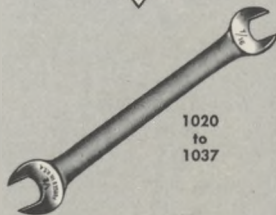
NO. 10005A Set in Roll-Up Kit

STD. PKG. 1—PKG. WT. 4.00 lbs.

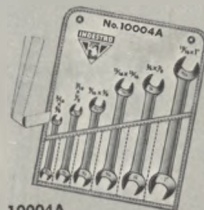
NO. K132 Roll-Up Kit Only

TAPPET WRENCHES

No.	Size	Length	Head Thick	Std. Pkg.	Pkg. Wt. Lbs.
T1A	7/16" x 1/2"	7-1/4"	5/32"	6	0.80
T2	1/2" x 9/16"	7-7/8"	11/64"	6	0.97
T2A	9/16" x 5/8"	7-7/8"	11/64"	6	1.00
T3	5/8" x 11/16"	8-3/8"	3/16"	6	1.39
T4	3/4" x 7/8"	8-3/4"	7/32"	6	1.76



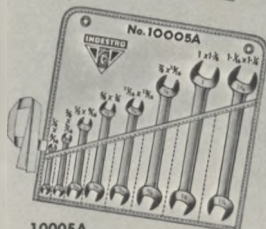
1020
to
1037



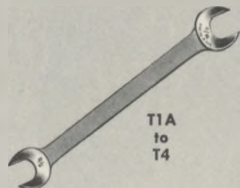
10004A



10006PK



10005A



T1A
to
T4



OBSTRUCTION & IGNITION WRENCHES

OBSTRUCTION END WRENCHES

Especially designed for use around obstructions, this wrench features one head at a 45° angle and the other at 90°—same size openings at both ends. Forged alloy steel with satin finished handles and highly polished heads. Completely chrome plated.

No.	Size	Length	Head Thick.	Std. Pkg.	Pkg. Wt. Lbs.
1821	3/8" x 3/8"	5-1/2"	11/64"	6	0.50
1823	7/16" x 7/16"	5-1/2"	11/64"	6	0.50
1825	1/2" x 1/2"	6-1/2"	13/64"	6	1.00
1827	9/16" x 9/16"	6-1/2"	13/64"	6	1.00
1829	5/8" x 5/8"	7-1/2"	15/64"	6	1.25
1830	11/16" x 11/16"	7-1/2"	1/4"	6	1.25
1831	3/4" x 3/4"	7-1/2"	1/4"	6	1.75

1821
to
1831

1807PK

7 PIECE OBSTRUCTION WRENCH SET

Set contains a full range of obstruction wrenches from 3/8" to 3/4". Contained in an attractive vinyl pouch.

NO. 1807PK Set in Pouch

STD. PKG. 1—PKG. WT. 1.50 Lbs.

NO. K241 Pouch Only

NO. 1807F 7 Pc. Set in Carton.

STD. PKG. 1—PKG. WT. 1.41 Lbs.

DROP FORGED IGNITION TYPE WRENCHES

Excellent for use on small size nuts in close quarters. Brightly chrome plated with polished heads.

No.	Openings		Length	Std. Pkg.	Pkg. Wt. Lbs.
	15°	60°			
891	13/64"	15/64"	3"	6	0.10
892	15/64"	13/64"	3"	6	0.10
892A	1/4"	3/16"	3"	6	0.10
893	7/32"	1/4"	3"	6	0.10
894	1/4"	7/32"	3"	6	0.10
895	9/32"	5/16"	3-1/2"	6	0.18
896	5/16"	9/32"	3-1/2"	6	0.18
897	11/32"	3/8"	4"	6	0.27
898	3/8"	11/32"	4"	6	0.27
899	7/16"	1/2"	4-1/2"	6	0.40

891
to
899

888

9 PIECE IGNITION WRENCH SET

Contains 9 wrenches, numbers 891 thru 898. Furnished in a sturdy roll-up kit with pockets for each wrench.

NO. 888

STD. PKG. 1—PKG. WT. 0.35 Lbs.

NO. K4 Kit Only

11 PIECE IGNITION WRENCH SET

Contains 9 wrenches, numbers 891 thru 898; No. 3410 5" plier; No. 136 4" screw driver. Furnished in a sturdy roll-up kit with pockets for each tool.

NO. 890

STD. PKG. 1—PKG. WT. 0.54 Lbs.

NO. K5 Kit Only

890

IGNITION TOOL SETS

4 PIECE IGNITION WRENCH SET

A four piece set of forged double end, ignition type wrenches. Wrench sizes 7/32" x 1/4", 13/64" x 15/64", 5/16" x 9/32", and 11/32" x 3/8". Chrome plated, polished heads. In heat sealed plastic kit.

NO. 884PK Set In Kit

STD. PKG. 1—PKG. WT. 0.23 lb.

NO. K139 Kit Only

5 PIECE IGNITION TOOL SET

A five piece set, same as No. 884PK, but with the addition of a midjet utility plier. In heat sealed plastic kit.

NO. 885PK Set In Kit

STD. PKG. 1—PKG. WT. 0.33 lb.

NO. K140 Kit Only

8 PIECE IGNITION TOOL SET IN KIT

Set contains 4 drop forged ignition wrenches, size 1/4" x 7/32", 13/64" x 15/64", 5/16" x 9/32" and 11/32" x 3/8". In addition contains a midjet plier, shockproof midjet screw driver, tungsten ignition file, and special steel feeler gauge with blades .012, .015, .018, .020 and .025.

NO. 889PK

STD. PKG. 1—PKG. WT. 0.43 lb.

NO. K141 Kit Only

8 PIECE IGNITION TOOL SET IN BOX

Set contains 4 drop forged ignition wrenches, size 1/4" x 7/32", 13/64" x 15/64", 5/16" x 9/32" and 11/32" x 3/8". In addition contains an alloy steel midjet plier, shockproof midjet screw driver, tungsten, ignition file, and special steel feeler gauge with blades .012, .015, .018, .020 and .025. Packed in handy attractive red enameled box.

NO. 889

STD. PKG. 1—PKG. WT. 1.00 lb.

4 PIECE IGNITION WRENCH SET

4 piece set of forged, double end, ignition type wrenches mounted on a color-fol card. 8 different size openings. Made of high quality steel for extra strength and chrome plated with brightly polished heads. Wrench sizes 7/32" x 1/4", 13/64" x 15/64", 5/16" x 9/32" and 11/32" x 3/8".

NO. 884 Set On Card

STD. PKG. 6—PKG. WT. 0.83 lb.

5 PIECE IGNITION TOOL SET

5 piece set same as above but with addition of a midjet utility plier.

NO. 885 Set On Card

STD. PKG. 6—PKG. WT. 1.44 lbs.

7 PIECE IGNITION TOOL SET

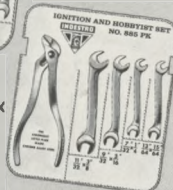
7 piece set mounted on a card. Contains: 1/4" x 7/32", 13/64" x 15/64", 5/16" x 9/32" and 11/32" x 3/8" wrenches, one shockproof midjet screw driver, tungsten file and special steel feeler gauge, sizes .012, .015, .018, .020 and .025.

NO. 887 Set On Card

STD. PKG. 6—PKG. WT. 1.34 lbs.



884PK



885PK



889PK



889



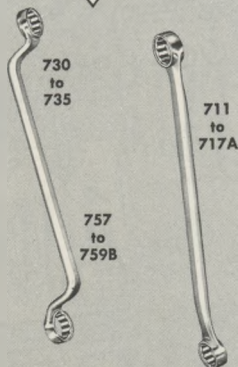
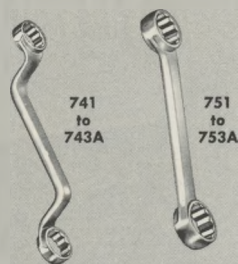
884

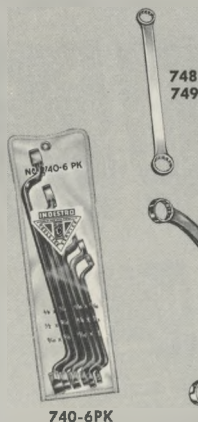


885



887


 757
to
759B

 741
to
743A

 751
to
753A


740-6PK


 748
749

 769
769A

Forged from **ALLOY STEEL** and heat treated for extra strength. Heads are polished to a mirror finish. Handles have a satin finish. Completely plated in a rich deep chrome.

†LONG 45° BOX WRENCHES

No.	Size	Length	Pkg. Wt. Lbs.
730*	3/8" x 7/16"	7-7/8"	1.00
730A	7/16" x 1/2"	8-3/16"	1.28
731	1/2" x 9/16"	8-13/16"	1.28
731A	9/16" x 5/8"	9-3/8"	1.76
732	5/8" x 11/16"	10"	2.23
732B	5/8" x 3/4"	10-1/16"	2.27
732C	11/16" x 13/16"	10-1/2"	2.74
733A	3/4" x 7/8"	11-5/16"	3.39
735	15/16" x 1"	14-5/16"	5.33

STD. PKG. 6

†EXTRA LONG 45° BOX WRENCHES

757	1-1/16" x 1-1/8"	16-1/4"	3.92
758B	1-1/8" x 1-1/4"	17-7/8"	5.00
758A	1-3/16" x 1-1/4"	18-1/4"	5.12
759A	1-5/16" x 1-3/8"	20-3/16"	6.55
759B	1-7/16" x 1-1/2"	22-3/4"	8.67

STD. PKG. 3

†SHORT 45° BOX WRENCHES

741*	3/8" x 7/16"	4-3/4"	0.74
742	1/2" x 9/16"	5-1/2"	0.98
743A	5/8" x 3/4"	6"	1.43

STD. PKG. 6

*6 Point. All other sizes are 12 Point.

†LONG 15° BOX WRENCHES

No.	Size	Length	Pkg. Wt. Lbs.
711*	3/8" x 7/16"	6-3/4"	1.00
711A	7/16" x 1/2"	7-5/8"	1.19
712	1/2" x 9/16"	8-5/8"	1.54
713	9/16" x 5/8"	9-9/16"	1.94
713B	5/8" x 3/4"	10-5/8"	2.04
714B	11/16" x 13/16"	11-7/8"	3.25
715	3/4" x 7/8"	13-1/4"	3.88
716	15/16" x 1"	16-1/8"	6.06

STD. PKG. 6

†EXTRA LONG 15° BOX WRENCHES

717	1-1/16" x 1-1/8"	17-3/4"	3.82
717A	1-1/16" x 1-1/4"	17-3/4"	3.87

STD. PKG. 3

†SHORT 15° BOX WRENCHES

751*	3/8" x 7/16"	4-1/8"	0.54
752	1/2" x 9/16"	4-3/4"	0.78
753A	5/8" x 3/4"	5-7/16"	1.00

STD. PKG. 6

†MIDGET IGNITION TYPE

748	1/4" x 5/16"	3-7/8"	0.18
749	9/32" x 11/32"	3-7/8"	0.18

STD. PKG. 6

6 PIECE BOX WRENCH SET

A popular size series of long 45° box wrenches in the following sizes: 3/8" x 7/16", 1/2" x 9/16", 9/16" x 5/8", 11/16" x 13/16", 3/4" x 7/8", 15/16" x 1". Contained in an attractive vinyl pouch.

NO. 740-6PK Set In Pouch

STD. PKG. 1—PKG. WT. 3.03 Lbs.

NO. 121 Pouch Only

STD. PKG. 1

†STARTER AND MANIFOLD WRENCHES

A 12 point special shaped wrench designed to reach into areas that are readily not accessible with a straight pattern wrench.

NO. 769—5/8" x 9/16"

STD. PKG. 6—PKG. WT. 1.98 Lbs.

NO. 769A—5/8" x 3/4"

STD. PKG. 6—PKG. WT. 2.71 Lbs.

COMBINATION WRENCHES & SETS

Forged from **ALLOY STEEL** and heat treated for extra strength. Heads are polished to a mirror finish. Handles have a satin finish. Completely plated in a rich deep chrome.

†Combination wrenches combine the best features of the open end and box end types. Both ends of the wrench have identical sizes. The box end is offset 10°. The open end is at a 15° angle.

†SHORT HANDLE SERIES

No.	Size	Length	Open End Head Thick.	Pkg. Wt. Lbs.
767S*	1/4"	3-3/4"	5/32"	0.26
768S*	5/16"	4-1/4"	11/64"	0.35
771S*	3/8"	4-3/4"	13/64"	0.50
772S	7/16"	5-3/16"	7/32"	0.67
773S	1/2"	5-3/4"	15/64"	0.93
774S	9/16"	6-3/8"	1/4"	1.26
775S	5/8"	7-1/16"	9/32"	1.53
776S	11/16"	7-11/16"	19/64"	1.68
777S	3/4"	8-1/4"	5/16"	2.36

STD. PKG. 6

*6 Point Box End. All other sizes are 12 Point.

†LONG HANDLE SERIES

No.	Size	Length	Open End Head Thick.	Pkg. Wt. Lbs.
771*	3/8"	7"	3/16"	0.64
772	7/16"	7-3/16"	13/64"	0.91
773	1/2"	7-11/16"	7/32"	1.31
774	9/16"	8-1/4"	15/64"	1.48
775	5/8"	8-7/8"	1/4"	1.75
776	11/16"	9-3/8"	9/32"	2.23
777	3/4"	10-1/8"	19/64"	2.64
777B	13/16"	10-1/2"	11/32"	3.00
778	7/8"	11-3/8"	23/64"	3.68
779	15/16"	12-5/16"	3/8"	4.55
780	1"	13-5/16"	25/64"	5.00
781	1-1/16"	14-1/4"	13/32"	3.41
782	1-1/8"	15-1/4"	7/16"	4.00
783	1-1/4"	16-1/4"	29/64"	5.00

STD. PKG. 6—Nos. 771 to 780.

STD. PKG. 3—Nos. 781 to 783.

*6 Point Box End. All other sizes are 12 Point.

6 PIECE COMBINATION WRENCH SET

Contains all popular sizes from 7/16" thru 3/4". Furnished in an attractive vinyl pouch.

NO. 770-6PK Set In Pouch

STD. PKG. 1—PKG. WT. 1.75 lbs.

NO. K120 Pouch Only

STD. PKG. 1

6 PIECE COMBINATION WRENCH SET

Contains all popular sizes 7/16" thru 3/4" in the short handle series. Furnished in a durable vinyl roll-up kit with pockets for each tool.

NO. 770-6 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 1.75 lbs.

NO. K133 Kit Only

STD. PKG. 1

11 PIECE COMBINATION WRENCH SET

A general utility set covering wide range of the more popular sizes from 3/8" thru 1". Furnished in a durable vinyl roll-up kit with pockets for each tool.

NO. 770-11 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 4.08 lbs.

NO. K135 Kit Only

STD. PKG. 1

14 PIECE COMBINATION WRENCH SET

A complete master set of sizes ranging from 3/8" thru 1-1/4". Furnished in a durable vinyl roll-up kit with pockets for each tool.

NO. 770-A14 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 8.20 lbs.

NO. K136 Kit Only

STD. PKG. 1

14 PIECE COMBINATION WRENCH SET

(Not Illustrated)

This set is similar to No. 770-A14 except that the sizes range from 1/4" thru 1-1/16". Furnished in a durable vinyl roll-up kit with pockets for each tool.

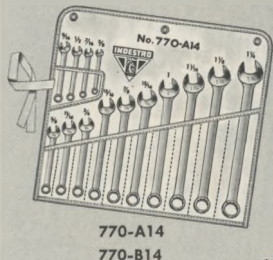
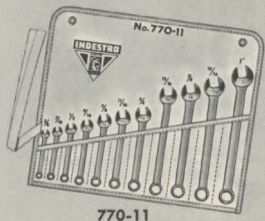
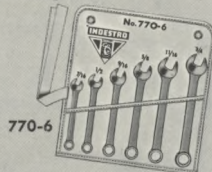
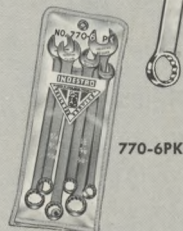
NO. 770-B14 Set In Roll-Up Kit

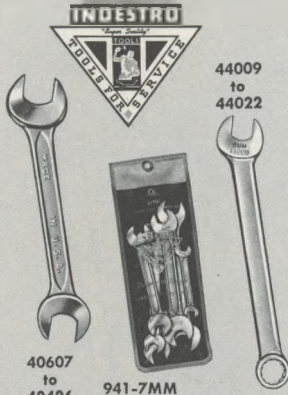
STD. PKG. 1—PKG. WT. 5.50 lbs.

NO. K137 Kit Only

STD. PKG. 1

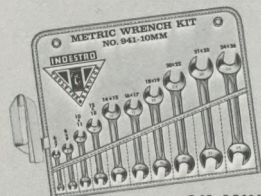
†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-636





46067
to
42426

941-7MM



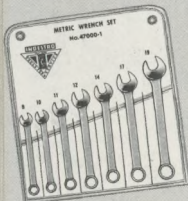
941-10MM



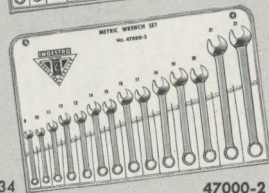
47000-3



47000-4



47000-1



34

47000-2

METRIC WRENCHES AND RITS

OPEN END WRENCHES

Chrome plated with polished heads, a complete range for making repairs and adjustments wherever metric fasteners are used.

No.	Metric Opening	Length In.	Head Thick. In.	Pkg. Wt. Lbs.	No.	Metric Opening	Length In.	Head Thick. In.	Pkg. Wt. Lbs.
40607	6 x 7	3-1/4"	9/64"	0.25	41617	16 x 17	6-7/16"	15/64"	1.50
40809	8 x 9	3-3/4"	5/32"	0.38	41819	18 x 19	7-5/16"	9/32"	2.00
41011	10 x 11	4-1/2"	3/16"	0.50	42022	20 x 22	8-1/4"	5/16"	3.00
41213	12 x 13	5-7/16"	13/64"	0.88	42123	21 x 23	9"	3/8"	4.38
41415	14 x 15	6-7/16"	15/64"	1.50	42426	24 x 26	9"	3/8"	4.38

STD. PKG. 6

6 PIECE OPEN END WRENCH SET

A popular set in "Klip" containing sizes 8MM, 9MM, 10MM, 11MM, 12MM, 13MM, 14MM, 15MM, 16MM, 17MM, 18MM, 19MM.

NO. 941-6MM

STD. PKG. 3—PKG. WT. 7.00 Lbs.

Same as above, 8 to 19MM, 6 open end wrenches in a durable pouch.

NO. 941-7MM

STD. PKG. 1—PKG. WT. 1.19 Lbs.

10 PIECE OPEN END WRENCH SET

In vinyl plastic kit—range 6MM to 26MM inclusive.

NO. 941-10MM

STD. PKG. 1—PKG. WT. 4.00 Lbs.

NO. K138 Kit Only

STD. PKG. 1

COMBINATION WRENCHES

All of the features of the box and open end wrenches are combined in one wrench. Both ends have same size openings. Box end is offset 10° for clearance and the open end is at a 15° angle for positive nut turning in restricted space. Forged from ALLOY STEEL, each wrench is brightly chrome plated. Box end of No. 44009 is 6 point, all other wrenches are 12 point.

No.	Size	Length In.	Open Head Thick. In.	Pkg. Wt. Lbs.	No.	Size	Length In.	Open Head Thick. In.	Pkg. Wt. Lbs.
44009	9MM	4-3/4"	13/64"	0.50	44016	16MM	7-1/16"	9/32"	1.50
44010	10MM	4-3/4"	13/64"	0.50	44017	17MM	7-1/16"	9/32"	1.50
44011	11MM	5-3/16"	7/32"	0.75	44018	18MM	7-1/16"	19/64"	1.88
44012	12MM	5-3/4"	15/64"	0.88	44019	19MM	8-1/4"	5/16"	2.13
44013	13MM	5-3/4"	15/64"	0.88	44020	20MM	8-1/4"	5/16"	2.13
44014	14MM	6-3/8"	1/4"	1.13	44021	21MM	10-1/2"	11/32"	2.75
44015	15MM	6-3/8"	1/4"	1.13	44022	22MM	11-3/8"	23/64"	3.37

STD. PKG. 6

6 PIECE COMBINATION WRENCH SET

In vinyl plastic pouch. Contains the following sizes: 15MM, 16MM, 18MM, 20MM, 21MM, 22MM.

NO. 47000-3 Set In Pouch

STD. PKG. 1—PKG. WT. 2.56 Lbs.

8 PIECE COMBINATION WRENCH SET

In vinyl plastic pouch. Contains the following sizes: 9MM, 10MM, 11MM, 12MM, 13MM, 14MM, 17MM, 19MM.

NO. 47000-4 Set In Pouch

STD. PKG. 1—PKG. WT. 1.56 Lbs.

COMBINATION WRENCH SETS IN ROLLS

7 PIECE COMBINATION WRENCH SET

Contains the following popular sizes: 9MM, 10MM, 11MM, 12MM, 14MM, 17MM and 19MM.

NO. 47000-1 Set In Roll

STD. PKG. 1—PKG. WT. 1.60 Lbs.

NO. K191 Plastic Roll Only

14 PIECE COMBINATION WRENCH SET

Contains the following complete range of sizes: 9MM, 10MM, 11MM, 12MM, 13MM, 14MM, 15MM, 16MM, 17MM, 18MM, 19MM, 20MM, 21MM and 22MM.

NO. 47000-2 Set In Roll

STD. PKG. 1—PKG. WT. 4.50 Lbs.

NO. K192 Plastic Roll Only



FLARE NUT WRENCHES

A specially designed wrench for use on brass or other soft metal fittings. End openings offset at 10° angle, will pass over tubing allowing contact of box wrench on flare nut. Made of Alloy Steel. Chrome plated with polished heads and panels.

STRAIGHT PATTERN

OFFSET PATTERN

No.	Size	Std. Pkg.	Pkg. Wt. Lbs.	No.	Size	Std. Pkg.	Pkg. Wt. Lbs.
368	3/8" x 7/16"—6 Pt.	6	0.88	379	3/8" x 1/2" — 6 Pt.	6	0.82
369	1/2" x 9/16"—6 Pt.	6	1.73	380	7/16" x 9/16"—6 Pt.	6	1.18
370	5/8" x 3/4"—6 Pt.	6	2.33	381	5/8" x 13/16"—12 Pt.	6	2.11
370A	5/8" x 13/16"—12 Pt.	6	2.26	382	3/4" x 1"—12 Pt.	6	3.31
371	3/4" x 1"—12 Pt.	6	3.04	383A	15/16" x 1-1/8"—12 Pt.	6	4.85
371A	3/4" x 1-1/16"—12 Pt.	6	2.98	383	7/8" x 1-1/8"—12 Pt.	6	5.01
372A	15/16" x 1-1/8"—12 Pt.	6	4.44	384A	1" x 1-1/4"—12 Pt.	6	5.35
372	7/8" x 1-1/8"—12 Pt.	6	4.51	384B	1-1/16" x 1-1/4"—12 Pt.	6	5.50

3 PIECE FLARE NUT WRENCH SET

A handy set containing three popular size, straight pattern, flare nut wrenches. Openings 3/8" x 7/16" 1/2" x 9/16", 5/8" x 3/4". Contained in vinyl roll-up kit with pockets for each wrench.

NO. 363 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 0.95 Lbs.

NO. K171 Kit Only

STD. PKG. 1

RATCHETING BOX WRENCHES

The utility of a box wrench with the "Plus" features of a ratchet. Chrome plated. 12 point openings except wrenches No. 0701 and No. 0702 (6 point).

No.	Size	Length	Head Thickness	Std. Pkg.	Pkg. Wt. Lbs.
0701*	1/4" x 5/16"	4-5/8"	7/16"	6	0.75
0702*	3/8" x 7/16"	6-1/4"	7/16"	6	1.42
0703	1/2" x 9/16"	7-1/2"	1-1/2"	6	2.15
0704	5/8" x 11/16"	8-5/8"	1-1/2"	6	3.03
0705	5/8" x 3/4"	8-5/8"	1-1/2"	6	3.08
0708	13/16" x 7/8"	9-7/8"	1-1/2"	6	3.99

*Indicates 6 Point.

PEG BOARD DISPLAY
Hanger adaptable to 1/8" or 1/4" peg board. Shipped with 3 each of the 6 ratcheting box wrenches shown in adjoining column.

NO. 5323

STD. PKG. 1—PKG. WT. 7.90 Lbs.

5 PIECE RATCHETING BOX WRENCH SET

Contains 5 wrenches in following sizes: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 3/4", 13/16" x 7/8". In vinyl pouch.

NO. 0700-5 Set In Pouch

STD. PKG. 1—PKG. WT. 2.02 Lbs.

NO. K156 Pouch Only

STD. PKG. 1

6 PIECE RATCHETING BOX WRENCH SET

Contains 6 wrenches in following sizes: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 5/8" x 3/4", 13/16" x 7/8". Set is contained in durable vinyl roll-up kit with pockets for each tool.

NO. 0700-6 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 2.74 Lbs.

NO. K153 Roll-Up Kit Only

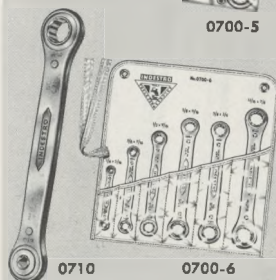
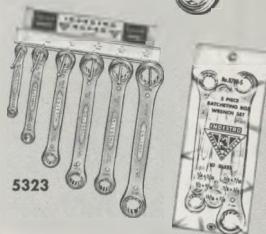
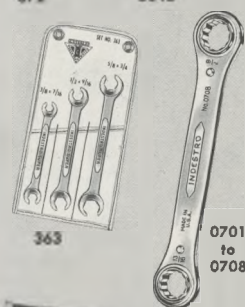
STD. PKG. 1

AIR CONDITIONER WRENCH

A special ratcheting wrench designed for servicing auto air conditioner units. Two size openings, 1/4" square and 9/16" twelve point. The 1/4" opening will fit valve ports on many air conditioner units. The 9/16" opening takes hexagon nuts and bolts that secure caps on charging units. Overall length is 7-1/2". Chrome plated finish.

NO. 0710 Wrench

STD. PKG. 6—PKG. WT. 2.55 Lbs.





SLIDE MARKER & BRIDGE SCALE TYPES

The Indestro Super Torque Indicating Wrench instantly makes all of the calculations for you. Its simplified rugged construction uses a centerless ground alloy steel beam which accurately indicates on a clearly marked scale without any fragile or complicated mechanisms. The slide marker over the scale can be set to the proper point and after that it is only necessary to watch the pointer and the marker which can easily be done from practically any position. Each wrench is tested for accuracy at the factory before packing for shipping.

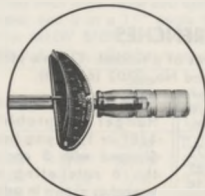
S. A. E. MEASUREMENT

No.	Square Drive	Maximum Range	Graduations	Length	Std. Pkg.	Pkg. Wt. Lbs.
8098 1/4"	1/4"	120 Inch Lbs.	5 Inch Lb. Units	9"	1	0.49
8098 3/8"	3/8"	50 Foot Lbs.	2-1/2 Foot Lb. Units	13"	1	0.85
8098 3/8" A	3/8"	200 Inch Lbs.	10 Inch Lb. Units	13"	1	0.85
*8098 1/2"	1/2"	100 Foot Lbs.	2-1/2 Foot Lb. Units	18"	1	1.92
*8098 1/2" H	1/2"	1800 Inch Lbs. and 150 Foot Lbs.	60 Inch Lb. Units	18"	1	2.10
8098 3/4"	3/4"	300 Foot Lbs.	5 Foot Lb. Units	30"	1	5.52

METRIC MEASUREMENT

8072	3/8"	700 cmkg	50 cmkg Units	13"	1	0.86
8074	1/2"	20 mkg	1 meter kil. Units	18"	1	2.00

*Bridge Scale Types. All others are Slide Marker Types.



Nos. 8099 1/2 and 8099 1/2 H have a bridge scale rather than a slide marker. Scale is mounted at a right angle to pointer. This feature enables the user to read the scale at eye level and in any position.

PRESETTING TYPES

Micrometer calibrated torque wrenches that can be preset to the required torque limit. Lock ring prevents accidental change of torque setting. Wrench will "click" when correct torque is reached and mechanism will release automatically. Ratcheting models have 12-tooth engagement for extra strength and requires only 6° hand travel. Operates and ratchets in both right and left hand directions. All models made of highest quality heat-treated alloy steel. Mechanism is sealed to permit cleaning in solvents. All parts are corrosion proofed. Pliable hand grip of soft Hycar plastic provides operator with secure grip even with greasy hands.

RATCHETING HEAD TYPE

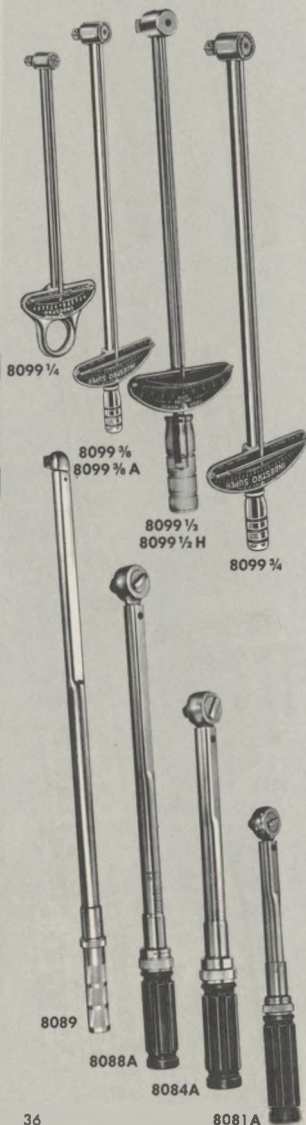
No.	Square Drive	Range	Graduations	Length	Std. Pkg.	Pkg. Wt. Lbs.
†8081A	1/4"	5 to 200 Inch Lbs.	1 Inch Lb. Units	9-1/2"	1	1.06
†8084A	3/8"	5 to 100 Foot Lbs.	1/2 Foot Lb. Units	14-9/16"	1	1.37
†8088A	1/2"	10 to 250 Foot Lbs.	1 Foot Lb. Units	20-9/16"	1	2.50

PLAIN HEAD TYPE

†8089	3/4"	100 to 600 Foot Lbs.	2-1/2 Foot Lb. Units	39-5/8"	1	15.00
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COMPLETE OPERATING INSTRUCTIONS & ENGINE TORQUE SPECIFICATIONS FURNISHED WITH EACH WRENCH

†MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-W-686





SLIP JOINT PLIERS

A general purpose plier of professional quality. Attractively priced. Hand finished from special steel with a high lustre, nickel finish. Has wire cutter and 2 position knurled handles for a comfortable non-slip grip. Federal Specification GGG-P-471.

NO. 2096A—Length 6"

STD. PKG. 6—PKG. WT. 2.50 Lbs.

NO. 2097A—Length 8"

STD. PKG. 6—PKG. WT. 3.34 Lbs.

NO. 2098A—Length 10"

STD. PKG. 6—PKG. WT. 4.25 Lbs.

UTILITY PLIERS

A sturdy utility tool to fulfill the ever increasing demand for an economically priced guaranteed all purpose plier. Drop forged from high grade tool steel, with 2 position knurled handles and wire cutter. Nickel plated satin finish. Federal Specification GGG-P-471.

NO. 3435—Length 5"

STD. PKG. 12—PKG. WT. 2.73 Lbs.

NO. 3436—Length 6"

STD. PKG. 12—PKG. WT. 5.25 Lbs.

NO. 3438—Length 8"

STD. PKG. 12—PKG. WT. 6.88 Lbs.

DUCK BILL PLIER

Broad, flat point makes this plier indispensable for straightening fins on heaters, condensers, evaporators, etc. Also popular with mechanics and electricians for pulling wire. Cross grooved in jaws for firm grip. Forged alloy steel with polished head. Handles complete with bonded vinyl plastisol grips. Federal Specification GGG-P-471.

NO. 2108—Length 7 3/4"

STD. PKG. 1—PKG. WT. 0.44 Lb.

NEEDLE NOSE PLIER

Just the plier for reaching into tight places. Strong thin jaws with broad curved handles affords firm grip with complete comfort. Jaws are cross grooved for holding power. Forged alloy steel with polished head. Handles have bonded vinyl plastisol grips. Federal Specification GGG-P-471.

NO. 2129—Length 8"

STD. PKG. 1—PKG. WT. 0.34 Lb.

LONG NOSE CUTTING PLIERS

The long thin jaws make this plier popular with mechanics, electricians and especially radio and television workers. Strong accurately matched cutting edges. Jaws are cross grooved for holding power. Forged alloy steel with polished head. Handles have bonded vinyl plastisol grips. Federal Specification GGG-P-471.

NO. 2111—Length 6"

STD. PKG. 1—PKG. WT. 0.34 Lb.

DIAGONAL CUTTING PLIER

Accurately forged, tempered and ground cutting edges assure long, satisfactory service. Alloy steel with polished head. Comfortable vinyl plastisol grips bonded to handles. Federal Specification GGG-P-00468.

NO. 2106—Length 6"

STD. PKG. 1—PKG. WT. 0.39 Lb.

HEAVY DUTY CUTTING PLIER

Of heavier construction, with cutting edges tempered to cut piano wire, making it popular with mechanics working on manual control wires. Forged alloy steel. Polished head. Comfortable vinyl plastisol grips bonded to handles. Federal Specification GGG-P-00468.

NO. 2107—Length 7 1/4"

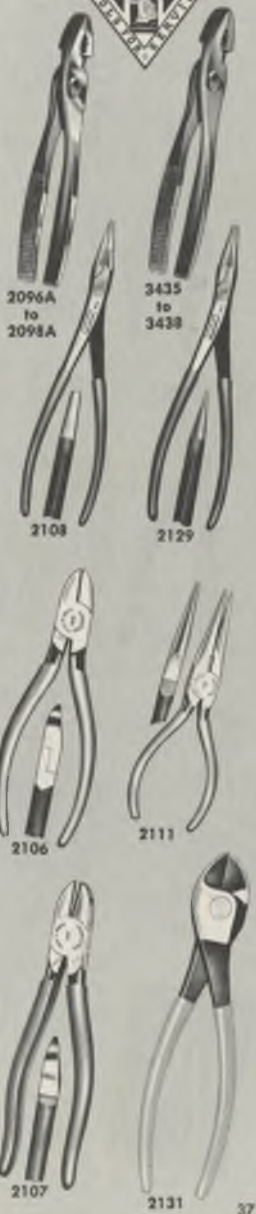
STD. PKG. 1—PKG. WT. 0.43 Lb.

EXTRA HEAVY DUTY CUTTING PLIER

An extra sturdy cutting plier forged from alloy steel for increased strength and toughness. Scientifically hardened cutting edges are strong and sharp. Will give long service on heavy duty jobs. Handles have bonded vinyl plastisol grips. Federal Specification GGG-P-00468.

NO. 2131—Length 7"

STD. PKG. 1—PKG. WT. 0.62 Lb.





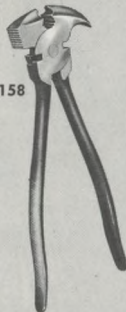
2124A



2157



2158



3440



3410



3441
to
3444



3411

PLIERS

LINEMAN'S SIDE CUTTING PLIER

A heavy duty alloy steel plier used primarily in electrical maintenance and wiring. Strong perfectly matched cutting edges; polished heads. Handles have bonded vinyl plastisol grips. Federal Specification GGG-P-471.

NO. 2124A—Length 7"

STD. PKG. 1—PKG. WT. 0.66 lb.

HEAVY DUTY CUTTING NIPPERS

Designed with maximum leverage for cutting large nails, wires, fencing, etc. A very useful tool in construction work. Made of high quality alloy steel, drop forged, heat treated and tempered. Sharp cutting edges are hardened and honed. Stops in head prevent cutting edges from dulling each other. Brightly polished head, tool is completely nickel plated. Federal Specification GGG-N-350.

NO. 2157—Length 10"

STD. PKG. 1—PKG. WT. 1.00 lb.

FENCE TOOL

This tool combines 6 tools in one and is designed for installing metal fencing on metal or wood posts. Heavy lock-joint construction. Starting and pulling point is on one jaw, corrugated hammer head on the other. A lug lifter, staple puller and wire splicer located on the front side and a wire stretcher in back. Wire cutter on each side will cut double strand barbed wire. Brightly polished head with a gun metal finish on the rest of the tool. Federal Specification GGG-P-471.

NO. 2158—Length 10"

STD. PKG. 1—PKG. WT. 1.44 lbs.

GROOVE JOINT IGNITION PLIER

Featuring the forged rib groove design, this plier has four opening positions. Made of forged alloy steel. Handles have bonded vinyl plastisol grips. Capacity 0-1/2". Federal Specification GGG-P-471.

NO. 3440—Length 4"

STD. PKG. 1—PKG. WT. 0.14 lb.

GROOVE JOINT PLIERS

Handy tools for use on fittings, pipe and general utility service. Jaws are locked in position by the rib and groove-joint design and cannot slip under any pressure. Plated with a nickel chrome finish. Vinyl plastic grips are bonded to handle. Federal Specification GGG-P-471.

NO. 3441—Length 6" —CAP. 0-1"

STD. PKG. 1—PKG. WT. 0.36 lb.

NO. 3442—Length 10" —CAP. 0-1 1/2"

STD. PKG. 1—PKG. WT. 0.90 lb.

NO. 3443—Length 12" —CAP. 0-2 1/8"

STD. PKG. 1—PKG. WT. 1.43 lbs.

NO. 3444—Length 16" —CAP. 0-4 1/4"

STD. PKG. 1—PKG. WT. 2.59 lbs.

IGNITION TYPE PLIER

A quality forged alloy steel ignition type plier. Opening to 9/16" from closed position in 4 adjustments. Chrome plated. Federal Specification GGG-P-471.

NO. 3410—Length 5"

STD. PKG. 6—PKG. WT. 0.77 lb.

MIDGET UTILITY PLIER

Midget utility plier for use on ignition, radio, television, etc. Opening to 9/16". Brightly plated. Mounted on colored card for display.

NO. 3411 Midget Utility Plier

STD. PKG. 6—PKG. WT. 0.74 lb.



WATER PUMP PLIER

A forged steel plier. Narrow jaws with 8 positions from closed to opening of 1 1/4". Extra comfortable handles with outstanding gripping power. Highly polished heads and richly chrome plated. Federal Specification GGG-P-471.

NO. 3403A—Length 9 1/4"

STD. PKG. 6—PKG. WT. 3.76 Lbs.

BATTERY PLIER

A forged steel battery plier that meets the demand for a popular priced plier. Teeth are braached clean with sufficient depth for good gripping power on corroded or undersized battery terminal nuts. Chrome plated. Federal Specification GGG-P-471.

NO. 3416—Length 8"

STD. PKG. 6—PKG. WT. 2.71 Lbs.

SPARK PLUG TERMINAL PLIER

For removing bare spark plug terminal with engine running without danger of electrical shock. The small indentation on the end of the insulated jaw, securely grips terminal wire for easy removal or connecting. Designed and tested to withstand voltages far in excess of those encountered in engine tune-up work. Handles and jaws are insulated for double protection.

NO. 3434—Length 7 1/2"

STD. PKG. 1—PKG. WT. 0.30 Lb.

GRIP ALL WRENCH

An all purpose wrench that securely grips and holds when jaws are locked in place. Has trigger release lever which unlocks jaws with a flick of the finger. Jaws are adjustable up to 1 1/4". Made of alloy steel; jaws are heat treated for maximum strength. Rust resistant plated finish. Federal Specification GGG-P-471.

NO. 3432—Length 10"

STD. PKG. 1—PKG. WT. 1.24 Lbs.

MIDGET PLIERS

Designed for all types of electronic work and other uses where the working area is limited. Made of fine quality alloy steel. Cutting edges are scientifically heat treated to the correct hardness. Jaws are spring tempered. Heads have ground finish, nose is polished. Handles have bonded vinyl grips for comfort only and are not intended as insulation against electrical shock.

FLAT NOSE MIDGET PLIER

Flat nose, scored jaws. Federal Specification GGG-P-004710.

NO. 2142—Length 4"

STD. PKG. 1—PKG. WT. 0.25 Lb.

CHAIN NOSE MIDGET PLIER

Narrow tapered, scored jaws. Federal Specification GGG-P-004710.

NO. 2143—Length 4"

STD. PKG. 1—PKG. WT. 0.25 Lb.

DIAGONAL CUTTING MIDGET PLIER

Narrow cutting jaws. Federal Specification GGG-P-00468.

NO. 2144—Length 4"

STD. PKG. 1—PKG. WT. 0.25 Lb.

END CUTTING MIDGET NIPPERS

Sharp strong cutting edges. Federal Specification GGG-N-350A.

NO. 2145—Length 4 1/2"

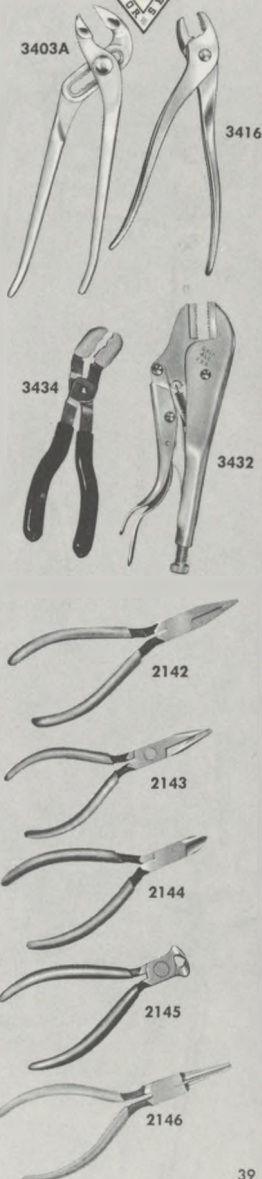
STD. PKG. 1—PKG. WT. 0.37 Lb.

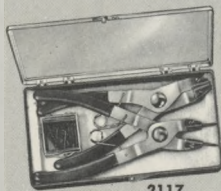
ROUND NOSE LOOPING MIDGET PLIER

Round nose, round jaws. Federal Specification GGG-P-004710.

NO. 2146—Length 4 1/2"

STD. PKG. 1—PKG. WT. 0.25 Lb.





2117



2132



2141



2140



3427



3428



2555



3428C

PLIERS

LOCK RING PLIERS

Lock rings are easily removed with this tool. Jaws are thin and strong with cross grooves on outside to prevent slipping. Jaw tips are offset to handle brake shoe lock rings and other shaft assemblies. Spring holds jaws in closed position. Forged alloy steel with comfortable handles and polished head.

NO. 2132—Length 8"

STD. PKG. 1—PKG. WT. 0.50 lb.

LOCK RING PLIER SET

Contains two interchangeable-tip pliers and an assortment of tips to cover a wide range of Snap Ring applications for external and internal use. Vinyl plastic grips are bonded to handles. Set is contained in plastic box.

NO. 2117

STD. PKG. 1—PKG. WT. 1.25 lbs.

HOSE CLAMP PLIER

A slip joint plier for removing and applying small hose clamps used on air lines, fuel lines on outboard motors and automobiles. There are recesses in the end and the side of the jaws to grip the ends of the spring clamp. Fully chrome plated. Capacity 0 to 1".

NO. 2140—Length 6"

STD. PKG. 1—PKG. WT. 0.50 lb.

HEAVY DUTY HOSE CLAMP PLIER

Heavy duty tool for removing and applying the new spring hose clamps which are now standard on many new automobiles. Recesses in the end and side of the jaws make it easy to get into tight places and assures positive gripping action. Slip ring on handle permits one to remove hand from plier to adjust hose. Fully chrome plated. Capacity 0 to 1 3/4".

NO. 2141—Length 8"

STD. PKG. 1—PKG. WT. 0.59 lb.

BRAKE SPRING PLIERS

Designed for removing and installing brake springs. Pointed jaw holds brake shoe in line while hook draws spring into position. One handle has a cam on the end which releases spring from anchor post merely by turning. Other handle is grooved to slip spring over anchor post. Made of forged alloy steel and completely chrome plated.

NO. 3427—Length 8 1/2"

STD. PKG. 3—PKG. WT. 1.50 lbs.

NO. 3428—Length 13 1/2"

STD. PKG. 3—PKG. WT. 2.81 lbs.

NO. 3428C—One No. 3428 Brake Spring Plier mounted an attractive "self-sell" merchandising card.

STD. PKG. 3—PKG. WT. 3.00 lbs.

WHEEL WEIGHT PULLER

Angle jaw type that grips wheel weights firmly for quick and easy removal. Perfectly balanced hammer head drives clips into place with a few light blows. End of handle is offset and flat to snap off wheel covers.

NO. 2555

STD. PKG. 2—PKG. WT. 2.00 lbs.

ADJUSTABLE, PIPE AND CHAIN WRENCHES

ADJUSTABLE WRENCHES

Close tolerance machining of the moving parts result in smooth operation. Jaws are parallel at all adjustments. Made of alloy steel, hardened and heat treated. Available with chrome plated finish or industrial black finish. Conforms to Federal Specification GGG-W-331

CHROME PLATED FINISH

No.	Length	Max. Jaw Opening	Std. Pkg.	Wt. Lbs.	No.	Length	Max. Jaw Opening	Std. Pkg.	Wt. Lbs.
3585A	4"	1 1/2"	1	0.10	3588A	10"	1-1/8"	1	0.92
3586A	6"	3/4"	1	0.27	3589A	12"	1-5/16"	1	1.63
3587A	8"	15/16"	1	0.54	3590A	15"	1-11/16"	1	3.31

BLACK FINISH

No.	Length	Max. Jaw Opening	Std. Pkg.	Wt. Lbs.	No.	Length	Max. Jaw Opening	Std. Pkg.	Wt. Lbs.
3578	4"	1 1/2"	1	0.10	3578	10"	1-1/8"	1	0.94
3578	6"	3/4"	1	0.28	3579	12"	1-5/16"	1	1.65
3577	8"	15/16"	1	0.55	3580	15"	1-11/16"	1	3.36

REPLACEMENT PARTS

For Wrench No.	Jaw	Screw, Worm & Spring	Std. Pkg.	For Wrench No.	Jaw	Screw, Worm & Spring	Std. Pkg.
3585A	3585A-2	3585A-8	1	3575	3575-2	3585A-8	1
3586A	3586A-2	3586A-8	1	3576	3576-2	3586A-8	1
3587A	3587A-2	3587A-8	1	3577	3577-2	3587A-8	1
3588A	3588A-2	3588A-8	1	3578	3578-2	3588A-8	1
3589A	3589A-2	3589A-8	1	3579	3579-2	3589A-8	1
3590A	3590A-2	3590A-8	1	3580	3580-2	3590A-8	1

PIPE WRENCHES—STILLSON TYPE

Designed for normal duty use. Will meet the requirements of the farm, home and light industrial applications. Handles and heads are made of special analysis steel, heat treated. Jaw teeth are deep milled, uniformly spaced and scientifically hardened. Head has a machine ground finish. Conforms to Federal Specification GGG-W-651

No.	Size	Pipe Capacity	Std. Pkg.	Pkg. Wt.
3508	8"	1/8" to 3/4"	6	4.00 Lbs.
3510	10"	1/8" to 1"	6	9.00 Lbs.
3514	14"	1/4" to 1-1/2"	6	15.50 Lbs.
3518	18"	1/4" to 2"	6	27.40 Lbs.
3524	24"	1/4" to 2-1/2"	6	44.00 Lbs.

REPLACEMENT PARTS—PIPE WRENCHES—STILLSON TYPE

Wrench No.	Frame	Moving Jaw	Ring Nut	Pin	Wrench No.	Frame	Moving Jaw	Ring Nut	Pin
3508	3508-1	3508-2	3508-3	3508-4	3518	3518-1	3518-2	3518-3	3518-4
3510	3510-1	3510-2	3510-3	3510-4	3524	3524-1	3524-2	3524-3	3524-4
3514	3514-1	3514-2	3514-3	3514-4					

STD. PKG. 1

PIPE WRENCHES—HEAVY DUTY TYPE

Perfectly balanced for ease of operation. Outstanding features include, easy adjustment, calibrated hook jaw and a patented double action spring for faster and easier bite, ratchet and release. Made of alloy steel scientifically designed for maximum strength. Steel jaws are forged and heat treated to just the right hardness. Conforms to Federal Specification GGG-W-651

No.	Length	Pipe Capacity	Std. Pkg.	Pkg. Wt.
3528	8"	1/8" to 1"	6	6.00 Lbs.
3530	10"	1/8" to 1-1/2"	6	12.00 Lbs.
3532	14"	1/4" to 2"	6	21.00 Lbs.
3534	18"	1/4" to 2-1/2"	6	33.00 Lbs.
3536	24"	1/4" to 3"	6	60.00 Lbs.

REPLACEMENT PARTS—PIPE WRENCHES—HEAVY DUTY TYPE

Wrench No.	Hook Jaw	Heel Jaw	Ring Nut	Jaw Rivet	Wrench No.	Hook Jaw	Heel Jaw	Ring Nut	Jaw Rivet
3528	3528-1	3528-2	3528-3	3528-4	3534	3534-1	3534-2	3534-3	3534-4
3530	3530-1	3530-2	3530-3	3530-4	3536	3536-1	3536-2	3536-3	3536-4
3532	3532-1	3532-2	3532-3	3532-4					

STD. PKG. 1

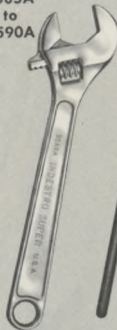
CHAIN WRENCH

A practical tool for the many instances where an ordinary pipe wrench will not fit. Excellent for pipe and fittings, this chain wrench is also useful in removing automobile oil filters. Has strong I beam handle fully chrome plated.

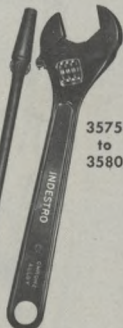
3504	12"	7/8" to 4"	1	1.50 Lbs.
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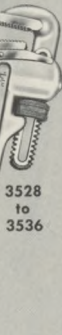
3585A
to
3590A



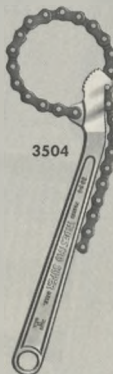
3575
to
3580



3508
to
3524



3528
to
3536





TINNERS SNIPS AND OFFSET SCREW DRIVERS

TINNERS SNIPS

Thinner cutting edges and handle design permit smooth clean cuts with strong handle leverage. The Circle Pattern is designed for work on intricate patterns and for either a straight cut or cutting right or left hand corners in a small radius. Made of a special analysis forged steel, heat treated for long useage. Fully polished jaws; handles are finished in a bright red.

5407
to
5412

5507
to
5512

STRAIGHT PATTERN

CIRCLE PATTERN

No.	Length	Cutting Edge	Pkg. Wt.	No.	Length	Cutting Edge	Pkg. Wt.
5407	7"	2"	0.50 Lb.	5507	7"	1-1/2"	0.50 Lb.
5410	10"	2-3/4"	1.00 Lb.	5510	10"	2-1/4"	1.00 Lb.
5412	12-3/4"	3"	1.50 Lbs.	5512	12-3/4"	3"	1.50 Lbs.

STD. PKG. 1

POWER CUT TYPES

These snips provide effortless cutting power on metal up to 18 gauge. Blades made with 52 serrations to the inch and are curved to divert the sheared metal. Furnished with **COLOR CODED** vinyl plastic hand grips as follows:

RED—CUTS LEFT GREEN—CUTS RIGHT YELLOW—CUTS STRAIGHT

No.	Cuts	Length	Length of Cut	Std. Pkg.	Pkg. Wt.
5401	Left	10"	1-3/8"	1	1.00 Lb.
5402	Right	10"	1-3/8"	1	1.00 Lb.
5403	Straight	10"	1-1/2"	1	1.00 Lb.

DOUBLE END OFFSET SCREW DRIVERS

No.	Stock Size	Length	Tip Width	Std. Pkg.	Pkg. Wt.
4771A	1/8"	3-3/16"	9/64"	6	0.12 Lb.
4771	3/16"	3-15/16"	13/64"	6	0.29 Lb.
4772	1/4"	4-3/4"	19/64"	6	0.57 Lb.
4773	5/16"	5-5/8"	31/64"	6	1.04 Lbs.
4774	3/8"	6-5/8"	7/16"	6	1.63 Lbs.

5 PC. OFFSET SCREW DRIVER SET

Set contains the 5 offset screw drivers listed above. Furnished with a Klip-Tite metal holder that keeps the screw drivers together when not in use.

NO. 4770-5K Set In Metal Holder

STD. PKG. 1—PKG. WT. 0.75 Lb.

PHILLIPS HEAD DOUBLE OFFSET SCREW DRIVERS

No.	Point Size	Length	Std. Pkg.	Pkg. Wt.
4656-12	1 and 2	4-3/4"	6	0.48 Lb.
4656-23	2 and 3	5-3/8"	6	0.93 Lb.
4656-34	3 and 4	6-1/4"	4	1.04 Lbs.

REVERSIBLE SCREW DRIVERS

Two-in-one screw drivers with detachable blades that can be reversed for the required bit size. A special clutch secures blade in handle.

No.	Blade Size & Description	Std. Pkg.	Pkg. Wt.
4694	3/16" x #1 Point Phillips	6	2.00 Lbs.
4695	1/4" x #2 Point Phillips	6	2.75 Lbs.

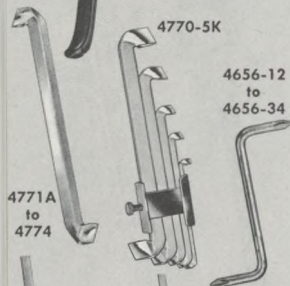
POCKET SCREW DRIVER MERCHANDISER

An attractive merchandiser containing 12 No. 136 Midget Screw Drivers. Merchandiser card can be displayed on counter, wall, rack or other self-service display.

NO. 136-C12

STD. PKG. 1—PKG. WT. 0.41 Lb.

MEETS OR EXCEEDS FEDERAL SPECIFICATION GGG-S-291

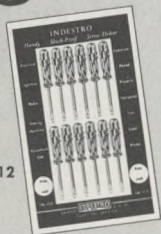


4771A
to
4774

4695

4694

136-C12



SCREW DRIVERS



SLOTTED TYPE SCREW DRIVERS

Blades are made of alloy steel and precision milled for a perfect screw fit. Polished and chrome plated. Shockproof handles are made of Tenite plastic.

SQUARE BLADE TYPE

No.	Blade Dimensions			Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
	Stock	Length	Tip Width			
3702	1/8"	2-1/16"	1/8"	4-1/8"	6	0.28
3703	1/8"	3-1/16"	1/8"	5-1/8"	6	0.30
3711	3/16"	1-9/16"	3/16"	4-9/16"	6	0.50
3713	3/16"	3"	3/16"	6-5/8"	6	0.92
3714	3/16"	4"	3/16"	7-1/2"	6	0.99
3716	3/16"	6"	3/16"	9-1/2"	6	1.12
*3721	1/4"	1-1/4"	19/64"	3-1/16"	6	0.56
3722	1/4"	2"	19/64"	5-3/4"	6	1.29
3724	1/4"	4"	19/64"	7-3/4"	6	1.49
3726	1/4"	6"	19/64"	9-3/4"	6	1.71
3728	1/4"	8"	19/64"	11-3/4"	6	1.93
*3731	5/16"	1-1/4"	3/8"	3-1/16"	6	0.86
3736	5/16"	6"	3/8"	10"	4	1.62
3738	5/16"	8"	3/8"	12"	4	1.86
3746	3/8"	6"	7/16"	10-3/8"	2	1.04
3748	3/8"	8"	7/16"	12-3/8"	2	1.18
3749	3/8"	10"	7/16"	14-3/8"	2	1.36

ROUND BLADE TYPE

† 136	1/8"	2"	9/64"	4-1/16"	12	0.38
3603	1/8"	3-1/16"	1/8"	5-1/8"	6	0.28
3614	3/16"	4-1/16"	3/16"	7-1/16"	6	0.69
3616	3/16"	6-1/16"	3/16"	9-9/16"	6	1.03

*Stubby Handle Type

†With Pocket Clip

PHILLIPS HEAD SCREW DRIVERS

No.	Point Size	Blade Length	Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
4681	1	3"	6"	6	0.73
4682	2	4"	7-3/4"	6	1.23
4683	3	6"	10"	4	1.33
4684	4	8"	12-3/8"	2	1.89
*4688	1	1-1/4"	3"	6	0.48
*4689	2	1-1/2"	3-5/16"	6	0.79

CLUTCH HEAD SCREW DRIVERS

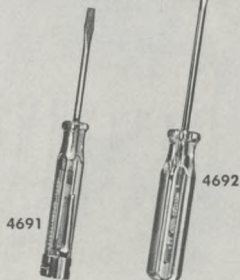
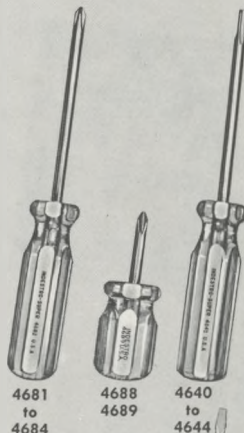
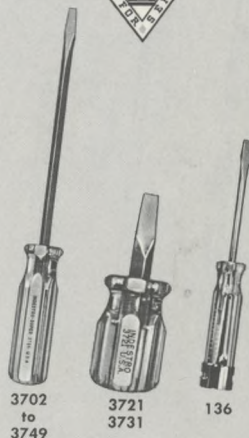
No.	Size	Blade Length	Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
4640	5/32"	4"	7"	6	0.76
4641	3/16"	4"	7-1/2"	6	0.88
4642	1/4"	6"	10"	6	1.80
4643	5/16"	6"	10-3/8"	2	0.93
4644	3/8"	6"	10-3/8"	2	0.92
*4649	5/32"	1-1/2"	3-1/4"	6	0.48

*Stubby Handle Type

SPARK TESTING SCREW DRIVERS

The transparent, shockproof amber handle magnifies a neon tube inside which flashes when screw driver blade is applied to spark plug, secondary ignition circuit or high tension wiring.

No.	Blade Stock	Blade Length	Tip Width	Overall Length	Std. Pkg.	Pkg. Wt. Lbs.
4691	1/8"	2-1/4"	1/8"	5"	6	0.25
4692	3/16"	4"	3/16"	7-3/4"	6	0.78





SCREW STARTERS AND NUT DRIVERS

SCREW STARTERS—MOLDED NYLON HANDLE FOR CROSS-SLOTTED SCREWS

Handy tools to start or remove all size screws located in difficult or inaccessible places. Releases automatically and re-sets as screw is tightened.

NO. 4780—2½" Length	STD. PKG. 6—PKG. WT. 0.16 lb.
NO. 4781—6" Length	STD. PKG. 6—PKG. WT. 0.28 lb.
NO. 4782—9" Length	STD. PKG. 6—PKG. WT. 0.38 lb.

4780
to
4782

4786
to
4788

4789
to
4791

ALUMINUM SCREW STARTERS WITH MAGNETS FOR CROSS-SLOTTED SCREWS

NO. 4786—2½" Length	STD. PKG. 6—PKG. WT. 0.30 lb.
NO. 4787—5" Length	STD. PKG. 6—PKG. WT. 0.45 lb.
NO. 4788—9" Length	STD. PKG. 6—PKG. WT. 0.60 lb.

FOR PHILLIPS HEAD SCREWS

NO. 4789—3" Length	STD. PKG. 6—PKG. WT. 0.35 lb.
NO. 4790—5" Length	STD. PKG. 6—PKG. WT. 0.45 lb.
NO. 4791—9" Length	STD. PKG. 6—PKG. WT. 0.60 lb.

SCREW STARTER DISPLAY CARD

An attractive self merchandising display card containing three popular size SCREW STARTERS. Numbers 4780, 4781 and 4782.

NO. 4785 Display	STD. PKG. 4—PKG. WT. 1.13 lbs.
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4785

NUT DRIVERS

Made from ALLOY STEEL with hollow shanks, extra deep sockets and plastic handles. Ideal for radio, television, ignition or switchboard work. Handles are color coded for quick and easy size identification.

No.	Size	Overall Length	Shaft Length	Std. Pkg. Pkg.	Wt. Lbs.	No.	Size	Overall Length	Shaft Length	Std. Pkg. Pkg.	Wt. Lbs.
71	3/16"	6-1/8"	3-1/8"	6	0.86	77	3/8"	7"	3-1/8"	6	0.95
72	7/32"	6-1/8"	3-1/8"	6	0.84	78	7/16"	7-1/4"	3-1/8"	6	1.22
73	1/4"	7"	3-1/8"	6	0.92	79	1/2"	7-1/4"	3-1/8"	6	1.36
74	9/32"	7"	3-1/8"	6	0.92	80	9/16"	7-1/4"	3-1/8"	6	1.46
75	5/16"	7"	3-1/8"	6	0.95	81	5/8"	7-1/4"	3-1/8"	6	1.51
76	11/32"	7"	3-1/8"	6	0.95						

7 PIECE NUT DRIVER SET

Contains seven of the popular size nut drivers as follows: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16" and 1/2". Furnished in a sturdy vinyl plastic roll-up kit with packets for each tool. Sizes are imprinted on kit for quick and easy selection.

NO. 70-7 Set In Roll-Up Kit	STD. PKG. 1—PKG. WT. 1.60 lbs.
NO. K195 Roll-Up Kit Only	STD. PKG. 1

71
to
81

70-7

HOLLOW HEAD SET SCREW WRENCHES



Hexagon type for hollow head set screws. Made of fine quality alloy steel and scientifically hardened. Each size is made to the exact tolerance for a perfect screw fit. Brightly plated finish.

REGULAR LENGTH					LONG LENGTH				
No.	Size	Length	Pkg. Wt. Lbs.		No.	Size	Length	Pkg. Wt. Lbs.	
0202A	1/16"	1-11/16"	0.09		0202L	5/64"	3"	0.18	
0202	5/64"	1-7/8"	0.12		0203L	3/32"	3-3/8"	0.26	
0203	3/32"	2"	0.18		0204AL	7/64"	3-1/2"	0.31	
0204A	7/64"	2-1/8"	0.19		0204L	1/8"	3-3/4"	0.50	
0204	1/8"	2-1/4"	0.33		0205AL	9/64"	4"	0.50	
0205A	9/64"	2-3/8"	0.36		0205L	5/32"	4-1/8"	0.75	
0205	5/32"	2-1/2"	0.50		0206L	3/16"	4-1/2"	1.22	
0206	3/16"	2-3/4"	0.85		0207L	7/32"	4-7/8"	1.75	
0207	7/32"	3"	1.18		0208L	1/4"	5-1/4"	2.00	
0208	1/4"	3-1/4"	1.68		*0210L	5/16"	6"	2.17	
*0210	5/16"	3-3/4"	2.00		*0212L	3/8"	6-3/4"	3.55	
*0212	3/8"	4-1/4"	2.49						

For additional wrench size information and usage, see chart on page 88

STD. PKG. 24
*STD. PKG. 12

7 PIECE SET—REGULAR LENGTHS

Contains seven popular sizes—5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4". Each wrench has individual pocket in this durable plastic kit.

NO. 199A Set In Vinyl Kit

STD. PKG. 6—PKG. WT. 1.25 Lbs.

NO. K143 Kit Only

STD. PKG. 1

12 PIECE SET—REGULAR LENGTHS

The complete range of wrenches packed in a plastic kit. Sizes are: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8".

NO. 198 Set In Vinyl Kit

STD. PKG. 6—PKG. WT. 3.75 Lbs.

NO. K190 Kit Only

STD. PKG. 1

7 PIECE SET—LONG LENGTHS

The most frequently used long type wrenches are offered in this popular priced, plastic kit set. Sizes are: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4".

NO. 191A Set In Vinyl Kit

STD. PKG. 6—PKG. WT. 2.00 Lbs.

NO. K74 Kit Only

STD. PKG. 1

11 PIECE SET—LONG LENGTHS

The complete range of long type wrenches packed in a plastic kit. Sizes are: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8".

NO. 195 Set In Vinyl Kit

STD. PKG. 6—PKG. WT. 6.00 Lbs.

NO. K189 Kit Only

STD. PKG. 1

DISPLAY MERCHANDISER

Attractive metal box merchandiser for displaying and storing all regular length hollow head set screw wrenches. Contains 12 of each wrench sizes 1/16" thru 1/4", and 6 of each, sizes 5/16" and 3/8".

NO. 200-1DM

STD. PKG. 1—PKG. WT. 7.50 Lbs.

7 PIECE SET—METRIC SIZES

BLACK FINISH

Regular length, accurately sized in millimeters. For use on Foreign made cars, motorcycles, and machinery. Black finish. Set contains the following sizes: 2MM, 3MM, 4MM, 5MM, 6MM, 8MM, 10MM. Furnished in a durable, snap open, vinyl pouch kit.

NO. 199MM Set In Pouch Kit

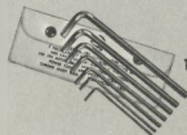
STD. PKG. 6—PKG. WT. 2.88 Lbs.



199A



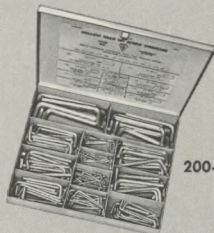
198



191A



195



200-1DM



199MM



PUNCHES AND CHISELS

Made of forged hexagon alloy steel and heat treated for the correct hardness. Tips and cutting edges retain their shape even under the hardest use. The body and head are softer to withstand hammer blows without chipping. Manufactured to exact professional requirements in length and size. Tips and blades are brightly polished. Body is satin finish and fully chrome plated.

FLAT COLD CHISELS

No.	Bit or Point Size	Length	Size Stock	Std. Pkg.	Pkg. Wt. Lbs.
1900	3/8"	5"	5/16"	6	0.71
1901	1/2"	5 3/4"	3/8"	6	1.17
1902	5/8"	6"	1/2"	6	2.11
1903	3/4"	7"	5/8"	6	3.69
1904	7/8"	8"	3/4"	6	5.87
1905	1"	9"	7/8"	6	8.68

CAPE CHISELS

1910	7/32"	5"	5/16"	6	0.68
1911	5/16"	6"	3/8"	6	1.15
1912	3/8"	6"	1/2"	6	1.92

GOUGE CHISELS

1920	7/32"	5"	5/16"	6	0.73
1921	1/4"	6"	3/8"	6	1.09

DIAMOND POINT CHISELS

1931	1/8"	5-1/4"	3/8"	6	0.96
1933	1/4"	5-1/2"	3/8"	6	1.37

PIN PUNCHES

1940	3/32"	4-1/2"	5/16"	6	0.53
1941	1/8"	4-1/2"	5/16"	6	0.53
1942	5/32"	4-1/2"	5/16"	6	0.53
1943	5/32"	6"	5/16"	6	0.73
1944	3/16"	6-1/2"	3/8"	6	1.09
1945	7/32"	6-7/8"	3/8"	6	1.11
1946	1/4"	7-1/4"	3/8"	6	1.19
1947	5/16"	7-5/8"	1/2"	6	2.14

LONG TAPER PUNCHES

1950	3/32"	4-1/2"	5/16"	6	0.50
1951	1/8"	6-1/2"	5/16"	6	0.82
1952	3/16"	7"	3/8"	6	1.19
1953	7/32"	7-1/2"	1/2"	6	2.09
1954	1/4"	8"	5/8"	6	3.29
1955	9/32"	11"	5/8"	6	5.13

CENTER PUNCHES

1970	4"	5/16"	6	0.50
1971	5"	3/8"	6	0.95

LONG DRIFT PUNCHES

1990	1/4"	16"	5/8"	6	7.85
1991	7/32"	14"	1/2"	6	4.56
1992	3/16"	12"	3/8"	6	2.27

JIMMY PRY BARS

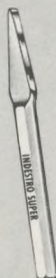
1981	1"	16"	5/8"	6	7.68
1982	1-1/8"	20"	3/4"	6	13.81

CLOSE QUARTER PRY BAR

1998	5/8"	15"	1/2"	6	5.22
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1900-05



1910-12



1920-21



1931-33



1940-47



1950-55



1970-71



1990-92



1981-82



1988

PUNCH AND CHISEL SETS

PUNCH & CHISEL SETS

A selection of three sets containing only the popular and most used sizes of each style. Furnished in a heavy gauge plastic roll-up kit with pockets for each tool.

15 PIECE PUNCH AND CHISEL SET

Contains three cold chisels 3/8", 1/2", 5/8"; one gouge chisel 1/4"; two cape chisels 7/32", 3/8"; one diamond point chisel 1/8"; three taper punches 3/32", 3/16", 7/32"; four pin punches 5/32", 3/16", 7/32", 1/4" one center punch.

NO. 19001

STD. PKG. 1—PKG. WT. 3.00 Lbs.

NO. K28 Kit Only

5 PIECE PUNCH AND CHISEL SET

Contains one 3/8" cold chisel; two pin punches, 3/32" and 1/8"; one taper punch 3/32"; and one center punch.

NO. 19002

STD. PKG. 1—PKG. WT. 0.50 Lb.

NO. K26 Kit Only

5 PIECE COLD CHISEL SET

Contains 1/2", 5/8" 3/4", 7/8" and 1" sizes.

NO. 19005

STD. PKG. 1—PKG. WT. 3.50 Lbs.

NO. K27 Kit Only

SCREW EXTRACTORS

FLUTED TYPE—Designed to remove broken studs, screws and pipe and pipe fittings. Correct drill size stamped on each tool. Forged from alloy steel.

TWIST TYPE—For removing broken threaded studs or screws. Made of forged alloy steel. Brightly plated finish.

FLUTED TYPE

TWIST TYPE

No.	Point Size	For Bolt Size	Use Drill Size	Pkg. Wt. Lbs.	No.	Point Size	For Bolt Size	Use Drill Size	Pkg. Wt. Lbs.
1381	1/8"	1/4-5/16"	1/8"	0.24	1391	1/8"	7/32-1/4"	5/32"	0.25
1382	11/64"	3/8-7/16"	3/16"	0.37	1392	3/16"	5/16-3/8"	7/32"	0.31
1383	13/64"	1/2-9/16"	5/64"	0.61	1393	1/4"	7/16-9/16"	9/32"	0.63
1384	19/64"	5/8"	5/16"	1.22	1394	3/8"	5/8-7/8"	13/32"	1.13
1385	11/32"	3/4"	3/8"	1.37	1395	7/16"	7/8-1-1/8"	15/32"	1.25
					1396	1/2"	1-1/8-1-3/8"	17/32"	1.25

STD. PKG. 6

5 PIECE SCREW EXTRACTOR SET

Contains fluted type extractors, Nos. 1381, 1382, 1383, 1384 and 1385. Use to remove bolt or stud sizes 1/4" thru 3/4". Furnished in a durable plastic roll-up kit with pockets for each tool.

NO. 1380 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 0.80 Lbs.

NO. K242 Roll-Up Kit Only

4 PIECE SCREW EXTRACTOR SET

Contains twist type extractors, Nos. 1391, 1392, 1393 and 1394. Use to remove bolt or stud sizes 7/32" thru 7/8". Furnished in a durable vinyl plastic roll-up kit with pockets for each tool. Not illustrated. Similar to No. 1399.

NO. 1398 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 0.47 Lb.

NO. K29 Roll-Up Kit Only

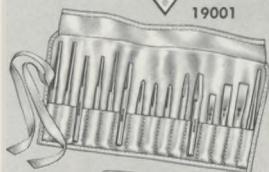
6 PIECE SCREW EXTRACTOR SET

Contains twist type extractors, Nos. 1391, 1392, 1393, 1394, 1395 and 1396. Use to remove bolt or stud sizes 7/32" thru 1-3/8". Furnished in a durable plastic roll-up kit with pockets for each tool.

NO. 1399 Set In Roll-Up Kit

STD. PKG. 1—PKG. WT. 0.90 Lbs.

NO. K30 Roll-Up Kit Only



19001



19002



19005



1381
to
1385

1391
to
1396



1380

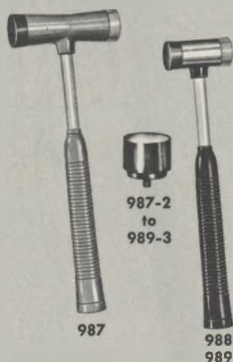


1399


 980-2B
to
980-32B

942A

943A



987

 987-2
to
989-3

 988
989


944

 990-18
990-24

BALL PEEN HAMMERS

Machinists' quality with rugged, drop forged carbon steel heads, triple heat treated for maximum durability. Face, sides and peen are polished. Neck and bell part of hammer head is finished in black. Hammer head is epoxy bonded to the Fiberglass Handle. Fully meets Federal Specification GGG-H-86c.

No.	Weight	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
980-2B	2 oz.	9"	3	1.15
980-4B	4 oz.	10"	3	1.69
980-8B	8 oz.	11"	6	4.84
980-12B	12 oz.	12"	3	3.31
980-16B	16 oz.	13"	6	8.06
980-20B	20 oz.	14"	3	5.00
980-24B	24 oz.	14"	3	6.00
980-32B	32 oz.	16"	3	8.00

CLAW HAMMERS

Carpenter's quality manufactured to fully meet Federal Specification GGG-H-86c. Heads are made of drop forged carbon steel, heat treated three ways for maximum durability. The face and claws are tempered separately for extra strength. Hammer head is epoxy bonded to the Fiberglass Handle.

No.	Weight	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
CURVED CLAW				
942A	16 oz.	13"	6	9.13
STRAIGHT CLAW				
943A	16 oz.	13"	6	9.13

SURFACE PROTECTIVE PLASTIC TIP HAMMERS

Designed for use where ordinary steel hammers cannot be used. Special compounded plastic tip prevents damage to the work surface. Fiberglass handle is permanently welded to the holder head. Furnished with two replaceable tips; medium and tough. Meets Federal Specification GGG-H-33a.

No.	Weight	Tip Dia.	Handle Length	Std. Pkg.	Pkg. Wt. Lbs.
987	12 oz.	1-3/8"	13"	4	3.47
988	10 oz.	1-1/4"	11"	4	3.56
989	16 oz.	1-3/8"	13"	4	4.38

REPLACEMENT HAMMER TIPS

Replacement tips for above hammers.

No.	Tip Dia.	Fits Hammer No.	Description	Std. Pkg.	Pkg. Wt. Lbs.
987-2	1-3/8"	987	Medium	6	0.44
987-3	1-3/8"	987	Tough	6	0.44
988-2	1-1/4"	988	Medium	6	0.39
988-3	1-1/4"	988	Tough	6	0.39
989-2	1-3/8"	989	Medium	6	0.44
989-3	1-3/8"	989	Tough	6	0.44

RUBBER MALLETS

These special composition rubber mallets have the unusual feature of all being the same head size, about 2" in diameter and 3-1/4" long, but having different weights distinguished by handle color.

NO. 990—18 Oz. Mallet

STD. PKG. 4—PKG. WT. 5.93 Lbs.

NO. 990—24 Oz. Mallet

STD. PKG. 4—PKG. WT. 7.12 Lbs.

CROSS PEEN OR BLACKSMITH HAMMER

Head is made of forged carbon steel and heat treated for maximum durability. Fiberglass handle and head are permanently welded together with a two component bonding method. Head cannot fly off or loosen even under the severest use. Fully meets Federal Specification GGG-H-86c. Weight 2 1/2 lbs. Handle length 16".

NO. 944 Hammer

STD. PKG. 2—PKG. WT. 5.50 Lbs.

BODY AND FENDER HAMMERS

DIMPLE DINGING HAMMER

Forged dinging hammer for close quarter work. 4" head has one face $1\frac{1}{4}$ " diameter. Peen $\frac{5}{8}$ " diameter. Polished faces. Hickory handle. Weight 9 oz.

NO. 949

STD. PKG. 4—PKG. WT. 2.82 Lbs.

LONG DIMPLE DINGING HAMMER

Hammer for dinging up low spots in metal finishing. Forged head has one $1\frac{1}{4}$ " diameter face. Pick end $5\frac{3}{4}$ " long tapering to $1/32$ " point. Overall length of head 8". Hickory handle. Weight 10 oz.

NO. 946

STD. PKG. 3—PKG. WT. 2.75 Lbs.

MEDIUM DINGING HAMMER

For dinging and driving up low spots. 6" length of forged head allows extra reach where needed. Head face $1\frac{1}{4}$ " diameter. Peen $\frac{5}{8}$ " diameter. Hickory handle. Weight 11 oz.

NO. 948

STD. PKG. 4—PKG. WT. 3.00 Lbs.

DINGING HAMMER

Drop forged dinging hammer for pounding down ridges, etc. Head 6" long with one face round $1\frac{1}{4}$ " diameter, the other $1\frac{1}{2}$ " square. Both faces highly polished. Hickory handle. Weight 13 oz.

NO. 952

STD. PKG. 4—PKG. WT. 3.83 Lbs.

FENDER BUMPING HAMMER

Designed for heavy duty work. Has long reach essential for fender bumping. Polished hammer face is $1\frac{1}{4}$ " diameter by $1\frac{1}{4}$ " long. Drop forged head has overall length of $8\frac{1}{2}$ ". Hickory handle. Weight 2 lbs.

NO. 953

STD. PKG. 4—PKG. WT. 8.50 Lbs.

BUMPING HAMMERS

Two bumping hammers similar in construction but different in weight. Weight difference is in thickness of head. Each drop forged head is 4" long and has two faces, one round $1\frac{1}{4}$ " in diameter the other $1\frac{1}{4}$ " square. Both faces polished. Hickory handle.

NO. 951—10 Oz.

STD. PKG. 4—PKG. WT. 3.45 Lbs.

NO. 950—13 Oz.

STD. PKG. 4—PKG. WT. 4.87 Lbs.

NARROW PEEN BUMPING HAMMER

Bumping hammer with narrow peen for small dents, beads, mauldings and sharp corners. Drop forged head has polished face $1\frac{1}{4}$ " diameter. Peen is $3/16$ " thick and $3/4$ " wide. Overall length of head 5". Hickory handle. Weight 12 oz.

NO. 947

STD. PKG. 3—PKG. WT. 2.82 Lbs.

BODY & FENDER SHRINKING HAMMER

Round $1\frac{3}{4}$ " diameter face has cross milled serrations for shrinking. Square $1\frac{1}{2}$ " face is smooth for finishing. Length $12\frac{1}{2}$ ". Weight 16 oz.

NO. 954

STD. PKG. 4—PKG. WT. 5.50 Lbs.



946

949

948

952

950
951

953

947

954



BODY AND FENDER TOOLS



955



956

TOE DOLLY

Exceptionally popular with mechanics. Used mainly for flat or low crowned panels. Polished all over. Weight $2\frac{1}{4}$ lbs.

NO. 955

STD. PKG. 1—PKG. WT. 2.28 Lbs.

UTILITY DOLLY

One of the most popular dollies in the line. Exceedingly useful because of the many practical working faces. Polished all over. Weight $2\frac{1}{4}$ lbs.

NO. 956

STD. PKG. 1—PKG. WT. 2.12 Lbs.

SMALL HAND DOLLY

Very convenient to grip in hand. Has two polished working faces. Good balanced design. Works well on high crowned panels. Weight $1\frac{3}{4}$ lbs.

NO. 957

STD. PKG. 1—PKG. WT. 1.80 Lbs.



957



958

LARGE HAND DOLLY

Used on heavy gauge steel and for roughing out panels. Designed for comfortable hand grip. Two working faces fully polished. Weight $2\frac{1}{4}$ lbs.

NO. 958

STD. PKG. 1—PKG. WT. 2.96 Lbs.



960



961

HEEL DOLLY

A basic repair tool. This dolly has almost square corners and a round and flat surface for general utility. Polished all over. Weight $2\frac{1}{4}$ lbs.

NO. 960

STD. PKG. 1—PKG. WT. 2.16 Lbs.

CURVED DOLLY

Convenient for fenders and for reaching into corners. Polished working faces. Weight $2\frac{1}{4}$ lbs.

NO. 964

STD. PKG. 1—PKG. WT. 2.23 Lbs.



964

CURVED FLAT SPOON

Needed to spread hammer blows on high spots and for prying up dents that are not easily accessible. Polished face $2'' \times 6''$.

NO. 961

STD. PKG. 1—PKG. WT. 1.48 Lbs.

FLEXIBLE FILE & HOLDER

An essential tool for body repair men. Can be made either concave or convex with single adjustment. Comfortable form fit handle.

NO. 972—14" Flexible File & Holder

STD. PKG. 1—PKG. WT. 2.59 Lbs.

NO. 972H—Adjustable Holder Only

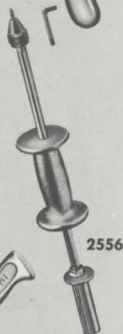
STD. PKG. 1—PKG. WT. 2.04 Lbs.

NO. 971F—14" Flexible File Only

STD. PKG. 6—PKG. WT. 3.90 Lbs.



972



2556

BODY DENT PULLER

Required tool for all body shops. Drill hole in dent, insert self-tapping screw or hook. Pull sliding hammer a few times and metal returns to its original position.

NO. 2556—Length 13"

STD. PKG. 1—PKG. WT. 4.25 Lbs.

REPLACEMENT PARTS FOR BODY DENT PULLER

NO. 2556-2—Sheet Metal Screw

STD. PKG. 6—PKG. WT. 0.20 Lb.

NO. 2556-3—Hook

STD. PKG. 6—PKG. WT. 0.20 Lb.

8 PIECE BODY & FENDER TOOL SET

A basic set containing the most used hammers and dollies for auto body and fender repair work. Furnished in a heavy gauge metal tote tray.

No.	Description	No.	Description	No.	Description
950	Bumping Hammer	956	Utility Dolly	964	Curved Dolly
952	Dinging Hammer	958	Large Hand Dolly	961	Curved Flat Spoon
955	Toe Dolly	960	Heel Dolly		

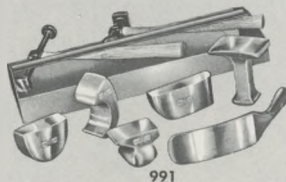
NO. 991 Set

STD. PKG. 1—PKG. WT. 16.00 Lbs.

NO. 9816-2R Tote Tray Only—Size $18\frac{3}{4}'' \times 6\frac{7}{8}'' \times 3\frac{5}{16}''$

Red Enamel Finish

STD. PKG. 1—PKG. WT. 4.31 Lbs.



991

BODY/FENDER SET AND FEELER GAUGES



16 PIECE BODY AND FENDER TOOL SET

A master set containing the most popular dollies, hammers, flexible file and spoon. Furnished in a heavy gauge metal box with handy tote tray.

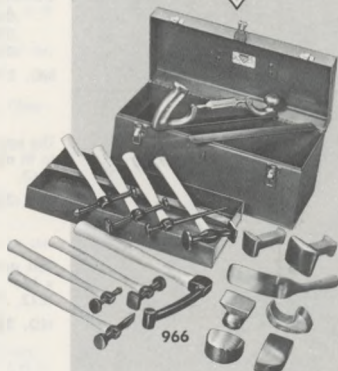
No.	Description	No.	Description
946	Long Dimple Dinging Hammer	955	Toe Dolly
947	Narrow Peen Bumping Hammer	956	Utility Dolly
948	Medium Dinging Hammer	957	Small Hand Dolly
949	Dimple Dinging Hammer	958	Large Hand Dolly
953	Fender Bumping Hammer	964	Curved Dolly
954	Shrinking Hammer	960	Heel Dolly
950	Bumping Hammer	961	Curved Spoon
952	Dinging Hammer	972	Flexible File & Holder

NO. 996 Set

STD. PKG. 1—PKG. WT. 41.00 Lbs.

NO. 9946R Box Only—19-7/16" x 8-3/4" x 7"—Red Enamel Finish

STD. PKG. 1—PKG. WT. 12.50 Lbs.



FEELER GAUGES

Gauges are precision made from finest grade Swedish steel. Each blade is tested to insure exact thickness. All gauges have knurled lock-nuts for instant blade selection or blade positioning. Size etched on each blade.

ALL PURPOSE GAUGE

A quality feeler gauge for general use. Nine thickness gauges ranging from .004 to .025 with 3" scale. Locking nut holds blade firmly when in use. Sizes .004, .006, .008, .010, .012, .013, .015, .018, .025, 3" scale.

NO. 166—Feeler Gauge

STD. PKG. 6—PKG. WT. 0.50 Lb.

NO. 166-C12—Card of 12

STD. PKG. 1—PKG. WT. 1.50 Lbs.

STANDARD FEELER GAUGE

This Gauge has 10 blades 3-1/4" long x 1/2" wide in popular thicknesses for piston ring clearances, valve clearances, brake shoe clearance and distributor breaker point opening. Sizes: .002, .003, .004, .005, .006, .007, .008, .010, .012, .015.

NO. 210—Standard Feeler Gauge

STD. PKG. 6—PKG. WT. 0.50 Lb.

MASTER FEELER GAUGE

The Master Feeler Gauge is a necessity around any automotive repair shop or manufacturing plant. This gauge offers a complete range of sizes from .0015 to .035 with 25 blades 3-1/4" long x 1/2" wide. Like all Indestra Super Feeler Gauges, it is equipped with a thumb locking nut. Sizes: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, .035.

NO. 225—Master Feeler Gauge

STD. PKG. 6—PKG. WT. 1.31 Lbs.

PISTON FEELER GAUGE

Eight Blade Gauge adapted to fitting pistons. Every recommended clearance is contained in this gauge. Blades 9" long and held in position by locking nut. Sizes: .002, .003, .004, .005, .006, .008, .010, .015.

NO. 207

STD. PKG. 6—PKG. WT. 1.00 Lb.

BRAKE FEELER GAUGE

Nine blades, 4" long, narrowed down to 1/4" width for accurate setting of brake clearances. Also will check fits of master and wheel piston to cylinder. Sizes: .002, .004, .005, .006, .007, .008, .010, .012, .015.

NO. 221

STD. PKG. 6—PKG. WT. 0.28 Lb.

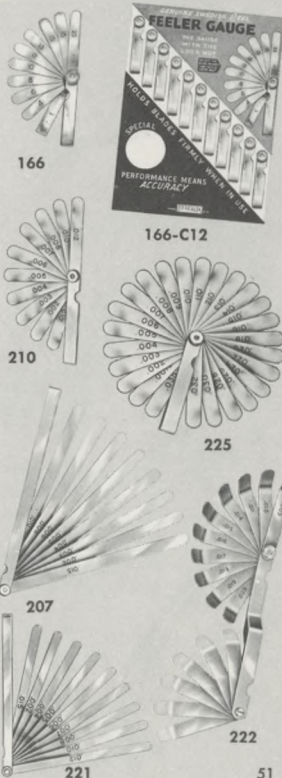
UNIVERSAL O.H.V. GAUGE

Contains sixteen blades, 3-5/16" x 1/2", 45° offset, for checking valve clearances on most V-8 engines. Sizes: .009, .010, .011, .014, .015, .016, .017, .018, .019, .020, .021, .023, .024, .025, .026, .027.

NO. 222

STD. PKG. 6—PKG. WT. 1.40 Lbs.

NOTE: Above gauges also contain metric sizes on all blades.





FEELER GAUGES

GO-NO-GO GAUGE

Contains 15 - 3-5/16" x 1/2" step-ground blades in the following thicknesses:

.006-.008	.009-.011	.012-.014	.015-.017	.018-.020
.007-.009	.010-.012	.013-.015	.016-.018	.019-.021
.008-.010	.011-.013	.014-.016	.017-.019	.020-.022

NO. 224

STD. PKG. 6—PKG. WT. 1.00 lb.

SPARK PLUG WIRE GAUGE

The correct way to measure the gap between spark plug electrodes. Eight sizes to fit all modern engines. Sizes: .022, .025, .028, .030, .032, .035, .038 and .040.

NO. 208A

STD. PKG. 6—PKG. WT. 0.50 lb.

MASTER IGNITION GAUGE

This gauge services all foreign and domestic cars. Contains 16 blades 1-3/4" x 1/4". Sizes are: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032.

NO. 229

STD. PKG. 6—PKG. WT. 0.37 lb.

COMBINATION IGNITION AND SPARK PLUG GAUGE

Wire and narrow blade sizes to check the majority of ignition gap tolerances. Contains 15 blades 1-3/4" x 1/4". Sizes: .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032. Wire gauge sizes: .022, .025, .028, .030, .032, .035, .038, .040 and 1 tinsure file.

NO. 230

STD. PKG. 6—PKG. WT. 0.50 lb.

FORD FEELER GAUGE

A necessity for a mechanic working on Ford cars. Has three bent wire gauges, .025, .028, .035 for spark plug gaps and two straight wire gauges, .017, .030. Four 3-5/16" x 1/4" ignition blades, .015, .016, .020, .025; also, thirteen step-ground 3-5/16" x 1/2" Go-No-Go blades of the following thicknesses: .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .021-.023, .024-.026, .025-.027. Handy spark plug electrode bender included.

NO. 226

STD. PKG. 6—PKG. WT. 1.26 lbs.

CHEVROLET FEELER GAUGE

Especially designed for use on Chevrolet cars. Has three bent wire gauges, .032, .035, .040 and four 3-5/16" x 1/4" ignition blades, .016, .018, .020, .022. Also contains eight 3-5/16" x 1/2" regular blades in the following sizes: .006, .007, .008, .010, .012, .013, .015, .020 and electrode bending tool.

NO. 227

STD. PKG. 6—PKG. WT. 0.82 lb.

COMBINATION GAUGE

A combination gauge for both ignition and tappet work. One end has ten 3" x 1/2" blades for tappet and valve work—the other has twelve 1-3/4" x 1/4" blades for breaker point, spark plug, carburetors, and other adjustments confined to small working space.

LONG BLADE SIZES

.002, .003, .004, .005,
.006, .007, .008, .010,
.013, .015.

SHORT BLADE SIZES

.011, .012, .013, .014,
.015, .016, .017, .018,
.019, .020, .022, .025.

NO. 228

STD. PKG. 6—PKG. WT. 0.68 lb.

SPARK PLUG GAPPING TOOL

Gap spark plugs quickly and accurately with this time saving tool. Gauging and setting electrodes in one quick operation. For proper usage, instructions included. Gauge wheel sets opening, .018, .020, .022, .025, .027, .028, .030, .032, .034, .035.

NO. CF-71

STD. PKG. 1—PKG. WT. 0.75 lb.

NOTE: Above gauges also contain metric sizes on all blades.

224

208A

229

230

226

227

228

CF-71

BRAKE CYLINDER AND VALVE SERVICE TOOLS



UNIVERSAL VALVE LIFTER

A lifter for automobiles and trucks with springs up to 2-3/4" diameter. Clearance 10-1/2" high, 9-1/2" wide. Includes CF-22C offset jaws, CF-21A and CF-23 straight jaws.

NO. CF-11

STD. PKG. 1—PKG. WT. 6.31 lbs.

HIGH COMPRESSION ENGINE VALVE LIFTER

Designed especially for V-8 car and truck engines with overhead valving. Clearance 9-3/4" high and 7" wide. CF-22C jaw furnished.

NO. CF-17

STD. PKG. 1—PKG. WT. 4.90 lbs.

COMPACT AND SMALL ENGINE VALVE LIFTER

Handles springs 7/8" to 1-1/2" diameter. Clearance 6-1/2" high and 6-1/4" wide. CF-21A jaw furnished.

NO. CF-18B

STD. PKG. 1—PKG. WT. 3.06 lbs.

EXTRA JAWS FOR ABOVE VALVE LIFTERS

NO. CF-21A Straight Jaw, 7/8" to 1-7/8" spring diameter.

NO. CF-22C Offset Jaw, overhead work, 1" to 2" spring diameter.

NO. CF-23 Large Straight Jaw, 1-1/2" to 2-1/2" spring diameter.

NO. CF18B-5 Hi-rise Jaw, 7/8" to 1-5/8" spring diameter for foreign cars.

ALL ABOVE JAWS PACKED ONE TO STD. PKG.—PKG. WT. 0.25 lbs.

SPLIT LOCK REPLACER

Tool to replace tapered split locks on valve stems. Use with all "C" clamp lifters.

NO. CF-7

STD. PKG. 6—PKG. WT. 1.81 lbs.

"SHORTY" VALVE LIFTER

Use on all L-head in line engines using straight stem valves.

NO. CF-49A

STD. PKG. 1—PKG. WT. 1.28 lbs.

DEGLAZING AND RESURFACING HONES

Adjustable hone for 2" to 5-1/4" cylinders. Includes 3 medium grit stones.

NO. CF-60CS

STD. PKG. 1—PKG. WT. 1.13 lbs.

SET OF REPLACEMENT STONES

MEDIUM GRIT: For CF-60CS Hone, in plastic case. Length 3".

NO. CF-61-125

STD. PKG. 1—PKG. WT. 0.28 lb.

FINE GRIT: For CF-60CS Hone, in plastic case. Length 3".

NO. CF-61-145

STD. PKG. 1—PKG. WT. 0.28 lb.

PRESET TENSION GLAZE BREAKER

This tool has preset tension, 2" to 7" capacity. With 4" medium grit stones.

NO. CF-62

STD. PKG. 1—PKG. WT. 1.13 lbs.

SET OF REPLACEMENT STONES

MEDIUM GRIT: For CF-62 Hone, in plastic case. Length 4".

NO. CF-62-12

STD. PKG. 1—PKG. WT. 0.28 lb.

FINE GRIT: For CF-62 Hone, in plastic case. Length 4".

NO. CF-62-14

STD. PKG. 1—PKG. WT. 0.28 lb.

BRAKE CYLINDER HONE

Use in cylinders 3/4" to 2-1/4" diameter. Includes set of 3 medium grit stones.

NO. CF-63

STD. PKG. 1—PKG. WT. 0.25 lb.

SET OF REPLACEMENT STONES

MEDIUM GRIT: For CF-63 Hone, in plastic case. Length 1-1/8".

NO. CF-63-1

STD. PKG. 1—PKG. WT. 0.06 lb.

FINE GRIT: For CF-63 Hone, in plastic case. Length 1-1/8".

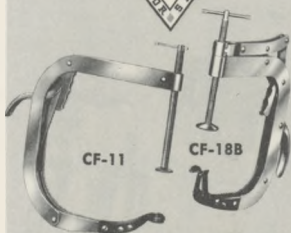
NO. CF-63-14

STD. PKG. 1—PKG. WT. 0.06 lb.

FINE GRIT: For No. CF-63 Hone, for disc brakes. Packed in plastic case. Length 3/4".

NO. CF-63-34

STD. PKG. 1—PKG. WT. 0.06 lb.



CF-21A



CF-22C



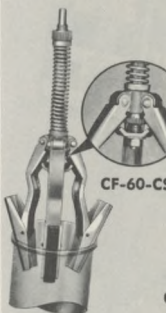
CF-23



CF-18B-5



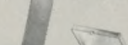
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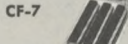
CF-60-CS



CF-49A



CF-7



CF-61-125

CF-61-145

CF-62-12

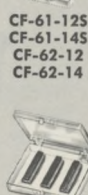
CF-62-14



CF-62



CF-63



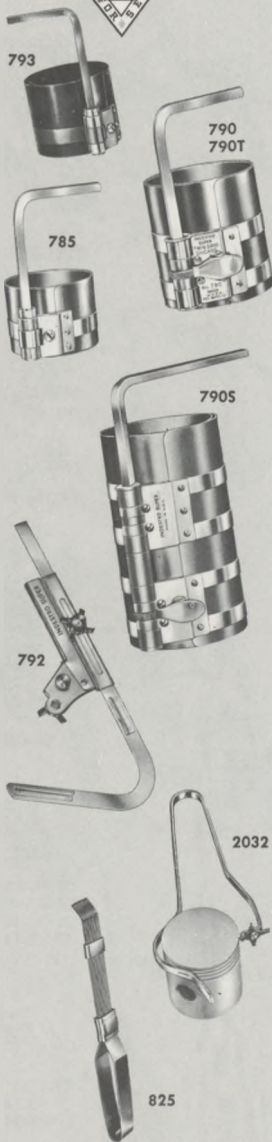
CF-63-1

CF-63-14

CF-63-34



PISTON SERVICE TOOLS



SMALL ENGINE RING COMPRESSOR

1-1/2" to 3" DIAMETER

Designed specifically for use on foreign cars and small gas engines. Spring steel compression band, 2-1/2" high. Single tension band with adjustable friction brake.

NO. 793

STD. PKG. 1—PKG. WT. 0.25 Lb.

STANDARD PISTON RING COMPRESSOR

2-1/8" to 5" DIAMETER

Fits practically all pistons except those having a ring on the lower skirt. Band depth is 2-1/8". Extra heavy spring steel tension band held firmly in place by automatic friction brake. L handle adjusts compressor easily to the diameter required.

NO. 785

STD. PKG. 1—PKG. WT. 0.50 Lb.

NO. 785B Replacement Tension Band

STD. PKG. 1—PKG. WT. 0.13 Lb.

TWIN BAND PISTON RING COMPRESSORS

The "Twin Band" feature eliminates flare out as well as compressing the rings tightly. Beaded bottom edge prevents the tool from entering the cylinder. L handle operates the self locking, heavy duty ratchet pawl. Band depth is 3-1/2".

2-1/8" to 5" DIAMETER

NO. 790

STD. PKG. 1—PKG. WT. 0.80 Lb.

3-1/2" to 7" DIAMETER

NO. 790T

STD. PKG. 1—PKG. WT. 0.82 Lb.

HEAVY DUTY PISTON RING COMPRESSOR

3-1/2" to 7" DIAMETER

Designed for use on truck, tractor or diesel engine. Band depth is 6-1/2". Has four tension bands and ratchet type tension holding device. Use on pistons when the extreme distance from top to skirt is more than 3-1/2".

NO. 790S

STD. PKG. 1—PKG. WT. 1.75 Lbs.

REPLACEMENT BAND

NO. 790B Replacement Tension Band for No. 790, 790T and 790S

STD. PKG. 1—PKG. WT. 0.68 Lb.

MASTER PISTON RING GROOVE CLEANER

Adjustable type for pistons 2 to 5 inches in diameter. Comes complete with two cutter wheels. No. 792A cutter wheel has four blades, 1/16", .070", 1/8" and 7/32". No. 792B cutter wheel has four blades, 5/64", 3/32", 5/32" and 3/16".

NO. 792 Groove Cleaner

STD. PKG. 1—PKG. WT. 0.66 Lb.

NO. 792A Replacement Cutter Wheel

STD. PKG. 4—PKG. WT. 0.14 Lb.

NO. 792B Replacement Cutter Wheel

STD. PKG. 4—PKG. WT. 0.14 Lb.

STANDARD PISTON RING GROOVE CLEANER

An inexpensive tool for cleaning grooves on almost any size piston. Easy to operate, nothing to adjust. Blades are made from hardened and tempered steel. Four blade widths: 3/32", 1/8", 5/32" and 3/16".

NO. 2032 Groove Cleaner

STD. PKG. 6—PKG. WT. 2.56 Lbs.

NO. 2032B Replacement Blade

STD. PKG. 6—PKG. WT. 0.11 Lb.

CARBON SCRAPER

Use to clean carbon from engine parts, etc. Easy to use, by a simple slide that adjusts the rigidity.

NO. 825

STD. PKG. 6—PKG. WT. 1.99 Lbs.

GEAR PULLERS

LIGHT DUTY GEAR PULLERS

Designed for removing small gears, bearings, cones and other parts that require a light duty puller. Forged arms are locked in pulling position by a cone operating on the puller screw. Grips securely, will not tip or slip. Chrome plated finish.

NO. 252—2-1/4" CAPACITY—Maximum spread between points of 1-7/8". Will pull a gear up to 2-1/4" diameter by 1/2" width. Effective arm length 1-3/4".

STD. PKG. 1—PKG. WT. 0.75 Lb.

REPLACEMENT PARTS FOR NO. 252

No.	252-1	252-2	252-3	252-4	252-5	252-6
Part	Body Bar	Screw	Arm	Nut	Handle	Rivet

NO. 253—3-1/2" CAPACITY—Maximum spread between points of 2-3/4". Will pull a gear up to 3-1/2" diameter by 1-1/8" width. Effective arm length 2-1/4".

STD. PKG. 1—PKG. WT. 1.36 Lb.

REPLACEMENT PARTS FOR NO. 253

No.	253-1	253-2	253-3	253-4	253-5	253-6
Part	Body Bar	Screw	Arm	Nut	Handle	Rivet

HEAVY DUTY PULLERS

Two and three arm types that can be used for either internal or external pulling. Drop forged arms have an 8" overall length with three effective length adjustments. 6-1/4" maximum reach. Offset hooks of 1/2" at one end and 1" at the other. Fully chrome plated. Center body is drop forged and finished in baked red enamel. Has three radial adjustments giving a diameter range of from 3" to 6". Quick action adjusting pins are held in place by spring loaded balls. Heavy, hardened, extra long screw has powerful low pitch thread. 7/8" hexagon head can be turned with socket and attachment or wrench.

NO. 255—2 ARM PULLER

STD. PKG. 1—PKG. WT. 5.16 Lbs.

NO. 256—3 ARM PULLER

STD. PKG. 1—PKG. WT. 7.41 Lbs.

HEAVY DUTY UNIVERSAL GEAR PULLER SET

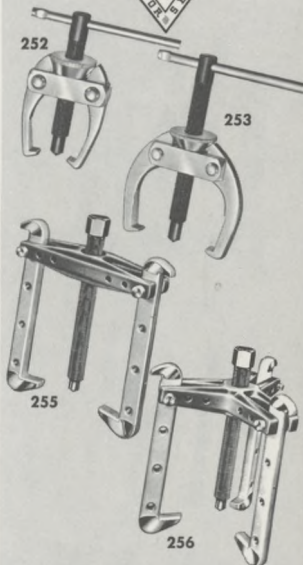
The combination of parts of gear pullers No. 255 and No. 256 creates a universal puller set. Complete utility is achieved by interchanging yokes and arms—either a two or three arm puller can be quickly and easily assembled for internal or external pulling.

NO. 257 Set

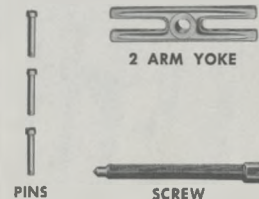
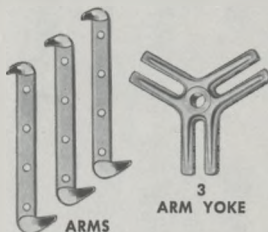
STD. PKG. 1—PKG. WT. 9.22 Lbs.

REPLACEMENT PARTS FOR NO. 255, 256, 257

No.	255-1	255-2	255-3	255-4	256-1
Part	2 Arm Yoke	Arm	Screw	Pin	3 Arm Yoke



257 Set includes the following parts:





GEAR PULLERS

A selection of 2 and 3 arm pullers for light, medium and heavy duty applications. Made of forged **ALLOY STEEL**, heat treated for maximum strength. Rust resistant cadmium plated finish.

2 ARM PULLERS

4" ADJUSTABLE TYPE

A small but rugged puller used for removing magneto and generator bearings and gears.

SPECIFICATIONS: Maximum reach 3-1/2"; maximum spread 4"; center screw 3/8"-24 x 4-3/4".

NO. 282

STD. PKG. 1—PKG. WT. 1.00 Lb.

6" REVERSIBLE TYPE

A versatile puller designed for many pulling applications. The reversible jaws have a wide face on one end and a narrow face on the other end.

SPECIFICATIONS: Maximum reach 3-1/2"; maximum spread 6"; center screw 5/8"-18 x 6-7/8".

NO. 283

STD. PKG. 1—PKG. WT. 4.00 Lbs.

8" REVERSIBLE TYPE

A heavy duty puller for both automotive and industrial applications. Reversible jaws have a wide face on one end and a narrow face on the other end.

SPECIFICATIONS: Maximum reach 5-1/2"; maximum spread 8"; center screw 3/4"-16 x 8-3/4".

NO. 284

STD. PKG. 1—PKG. WT. 4.25 Lbs.

10" ADJUSTABLE TYPE

A rugged, heavy duty puller designed for use on larger diameter gears. Adjustable jaws have a wide face on one end and a narrow face on the other end.

SPECIFICATIONS: Maximum reach 9"; maximum spread 10"; center screw 3/4"-16 x 8-3/4".

NO. 285

STD. PKG. 1—PKG. WT. 5.00 Lbs.

12" ADJUSTABLE TYPE

A heavy duty puller for larger size gears. Adjustable to two positions.

SPECIFICATIONS: Maximum reach 11"; maximum spread 12"; center screw 13/16"-16 x 12".

NO. 291

STD. PKG. 1—PKG. WT. 9.50 Lbs.

14" ADJUSTABLE TYPE

A large capacity puller designed for heavy duty applications. Adjustable to three positions.

SPECIFICATIONS: Maximum reach 15"; maximum spread 14"; center screw 13/16"-16 x 12".

NO. 292

STD. PKG. 1—PKG. WT. 11.75 Lbs.

REPLACEMENT PARTS FOR ABOVE PULLERS

Description	PULLER NUMBER					
	282	283	284	285	291	292
YOKE	282-1	283-1	284-1	284-1	291-1	291-1
ARM	282-2	283-2	284-2	285-2	291-2	292-2
SCREW	282-3	283-3	284-3	284-3	291-3	291-3
BOLT & NUT	282-4	282-4	284-4	284-4	291-4	291-4
LINKAGE	282-5	283-5	284-5	284-5	291-5	291-5

GEAR PULLERS



3 ARM PULLERS

6" REVERSIBLE TYPE

An all-around puller designed for maximum safety and utility. The reversible jaws have a wide face on one end and narrow face on the other end.

SPEC.: Max. reach 3-1/2"; max. spread 6"; center screw 5/8"-18 x 6-7/8".

NO. 286

STD. PKG. 1—PKG. WT. 2.50 lbs.

8" REVERSIBLE TYPE

A heavy duty puller designed for both automotive and industrial applications. Three jaw grip provides extra power for pulling gears, pulleys, etc.

SPEC.: Max. reach 5-1/2"; max. spread 8"; center screw 3/4"-16 x 8-3/4".

NO. 287

STD. PKG. 1—PKG. WT. 5.50 lbs.

10" ADJUSTABLE TYPE

For heavy duty pulling of large diameter gears, flywheels and pulleys. Adjustable to three positions.

SPEC.: Max. reach 9"; max. spread 10"; center screw 3/4"-16 x 8-3/4".

NO. 288

STD. PKG. 1—PKG. WT. 6.50 lbs.

REPLACEMENT PARTS FOR ABOVE PULLERS

Description	286	PULLER NUMBER		288
		287		
YOKE	286-1	287-1		287-1
ARM	283-2	284-2		285-2
SCREW	283-3	284-3		284-3
BOLT & NUT	282-4	284-4		284-4
LINKAGE	283-5	284-5		284-5

STRAIGHT LINE GEAR PULLERS AND SETS

The versatility of creating one two-jaw puller or complete two-jaw puller set. The clevis assembly can be used with either the 6" or 9" yoke. All jaws fit the clevis assembly. The effective maximum spread is either 6" or 9" depending on yoke used. Puller becomes either internal or external type by reversing of jaws. Screw for 6" yoke has 5/8"-18 thread. Screw for 9" yoke has 3/4"-16 thread. Maximum reach of puller is indicated by jaw length shown.

INDIVIDUAL PULLER PARTS

No.	Description	Std. Pkg.	Pkg. Wt. Lbs.
297C	6" Yoke & Screw	1	2.50
297D	9" Yoke & Screw	1	4.50
297-1	6" Yoke Only	1	1.80
297-3	Center Screw		
	for 6" Yoke	1	0.70
297-2	9" Yoke Only	1	3.50
297-4	Center Screw		
	for 9" Yoke	1	1.00
297-5	Clevis Assembly	2	1.75
297-6	Slotted Jaws—3"	2	0.75
297-7	4-1/4" Jaws	2	0.75
297-8	5-1/2" Jaws	2	1.50
297-9	8-1/2" Jaws	2	2.50
297-10	11" Jaws	2	4.00

MASTER PULLER SET

Quan.	No.	Size & Description
1	297C	6" Yoke & Screw
1	297D	9" Yoke & Screw
2	297-5	Clevis Assembly
2	297-6	Slotted Jaws—3"
2	297-7	4-1/4" Jaws
2	297-8	5-1/2" Jaws
2	297-9	8-1/2" Jaws
2	297-10	11" Jaws

NO. 297

STD. PKG. 1—PKG. WT. 19.25 lbs.

6" YOKE PULLER SET

Quan.	No.	Size & Description
1	297C	6" Yoke & Screw
2	297-5	Clevis Assembly
2	297-6	Slotted Jaws—3"
2	297-7	4-1/4" Jaws
2	297-8	5-1/2" Jaws
2	297-9	8-1/2" Jaws
2	297-10	11" Jaws

NO. 297A

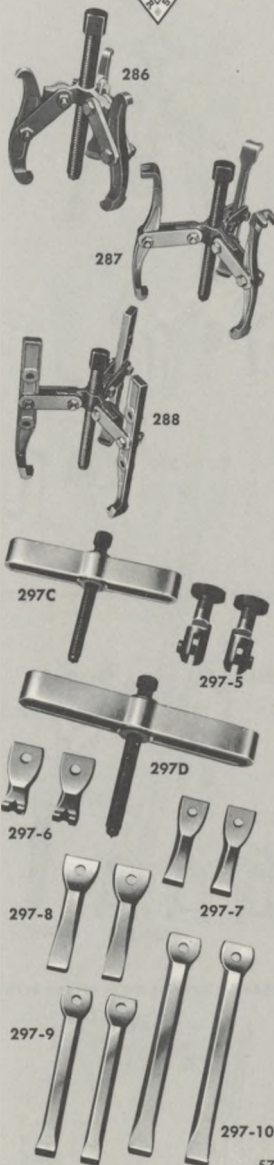
STD. PKG. 1—PKG. WT. 14.75 lbs.

9" YOKE PULLER SET

Quan.	No.	Size & Description
1	297D	9" Yoke & Screw
2	297-5	Clevis Assembly
2	297-6	Slotted Jaws—3"
2	297-7	4-1/4" Jaws
2	297-8	5-1/2" Jaws
2	297-9	8-1/2" Jaws
2	297-10	11" Jaws

NO. 297B

STD. PKG. 1—PKG. WT. 16.75 lbs.





HUB PULLERS

UNIVERSAL HUB PULLER

Three sliding puller arms quickly and easily adjust to fit the hub. The unique design of the arms provide for a straight pull on all size bolt circles up to 8". To prevent damage to the axle or puller screw, the contact end of the screw is fitted with a floating cap which centers on the axle. Forged alloy steel; chrome plated finish.

248



NO. 248

STD. PKG. 1—PKG. WT. 10.27 Lbs.

PARTS FOR NO. 248 PULLER

No.	248-3	248-8	248-9
Part	Body & Screw Assembly	Arm	Handle
Weight	7.00 Lbs.	1.25 Lbs.	1.50 Lbs.



258

2 AND 3 ARM HUB PULLERS

Two specially designed heavy malleable iron hub pullers. Finished in baked red enamel. Pulling screw is of hardened steel and has a 3/4" hexagon head for easy turning with wrench or socket and fitting. Two arm type for wheels having 4, 6 or 8 studs. Three arm type for wheels having 5 studs.

NO. 258—2 Arm Puller

STD. PKG. 1—PKG. WT. 4.35 Lbs.

NO. 259—3 Arm Puller

STD. PKG. 1—PKG. WT. 5.22 Lbs.

259



NOTE: All parts are interchangeable. See parts list below.

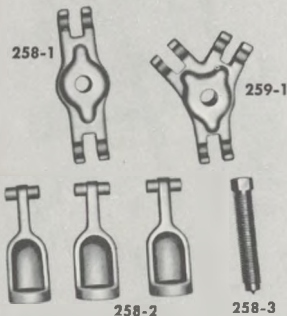
UNIVERSAL HUB PULLER SET

The combination of Hub Pullers No. 258 and No. 259 creates a Universal Hub Puller Set. All parts are interchangeable and can be quickly assembled. Use the two arm yoke for wheels with 4, 6 or 8 studs. The three arm yoke is for wheels with 5 studs.

NO. 260X Set

STD. PKG. 1—PKG. WT. 7.37 Lbs.

260X Set includes the following parts:



258-1

259-1

258-2

258-3

PARTS LIST

No.	258-1	258-2	258-3	259-1
Part	2 Arm Yoke	Arm	Screw	3 Arm Yoke
Weight	2.08 Lbs.	0.88 Lb.	0.51 Lb.	1.99 Lbs.

UNIVERSAL STEERING WHEEL PULLER SET

Essentially a steering wheel puller. This tool can also be used as a two or three way puller to remove pulleys, flanges, outboard engine flywheels, etc. Set includes three adaptors plus two 3/8" - 16 x 4", two 5/16" - 18 x 4-1/2", two 5/16" - 24 x 3-1/2" bolts. Screw head is 1/2" hexagon and can be turned with wrench or socket and handle. Uses any standard cap screw.

NO. 254A Set

STD. PKG. 1—PKG. WT. 1.96 Lbs.

254A Set includes the following parts:



254-1

254-3

254-4

254-5

58

254-2

CONTENTS AND PARTS LIST

No.	254-1	254-2	254-3	254-4	254-5
Part	Body	Screw	Standard Adaptor	Adaptor for Chrysler & Plymouth	Adaptor for Buick 1955 and up
Weight	1.00 Lb.	0.25 Lb.	0.88 Lb.	0.06 Lb.	0.06 Lb.

SPECIALTY PULLERS

HARMONIC BALANCER PULLER

Designed to pull Balancers, Vibration Dampers, Pulleys or any gear with tapped holes. The four slots in the yoke, allows the use of this tool in either two or three hole applications. The Floating Swivel prevents damage to shaft ends. Complete unit consists of Yoke, Hex Head Center Screw with Live Center and Ring, and 8 side screws (3 each of 3/8"-24 x 2", 5/16"-18 x 2", and 2 each of 3/8"-16 x 4"). Finish: Cadmium plated body; black oxide screw.

RANGE: 1-3/8" to 3-9/16"

NO. 289

STD. PKG. 1—PKG. WT. 2.50 Lbs.

REPLACEMENT PARTS

No.	Description	Wt. Lbs.	Std. Pkg.
289-1	Yoke	1.25	1
289-2	Live Center & Ring	0.07	1
289-3	Screw	0.55	1
289-4	5/16"-18 x 2" Bolt	0.07	1
289-5	3/8"-24 x 2" Bolt	0.10	1
289-6	3/8"-16 x 4" Bolt	0.15	1

UNIVERSAL PITMAN ARM PULLER

Designed for removing the Pitman Arms from the majority of cars and light trucks. This Universal Puller eliminates the necessity for the mechanic to have several different types of pullers to do this job. The Heavy Duty Center Screw allows enough pressure to be applied in removing even the most stubborn Pitman Arms. Finish: Cadmium plated body; black oxide screw.

NO. 290

STD. PKG. 1—PKG. WT. 1.25 Lbs.

REPLACEMENT PARTS

No.	Description	Wt. Lbs.	Std. Pkg.
290-1	Yoke	0.95	1
290-2	Screw	0.30	1

TIE ROD END PULLER

Designed primarily to separate tie rod end from steering arm. Place between the two and strike a few sharp blows with hammer. The parts will separate easily. Can also be used to separate shock absorber links. Tapered wedge-end has two prongs with a 21/32" opening. A heavy duty tool made from alloy heat treated steel. Will withstand hard usage. Overall length 16". Cadmium plated.

NO. 266

STD. PKG. 1—PKG. WT. 2.73 Lbs.

BALL JOINT SEPARATOR

A handy tool for removing the ball joint from steering knuckle. To use, place the tapered end between the two and strike a few blows with hammer. These parts will easily separate. Tapered wedge end has a 15/16" opening. Made of alloy heat treated steel to withstand hard usage. Overall length 11-7/8". Cadmium plated.

NO. 267

STD. PKG. 1—PKG. WT. 1.75 Lbs.

BEARING SEPARATORS

For precision pulling of hard to grip parts. Knife like edges for gripping gears, bearings, etc., where space does not permit puller jaws to be hooked on to part.

NO. 247—Capacity 0"-2-1/4"—Use with Indestro Puller No. 283 or 274

STD. PKG. 1—PKG. WT. 1.25 Lbs.

NO. 247H—Capacity 0"-4-1/4"—Use with Indestro Puller No. 284

STD. PKG. 1—PKG. WT. 6.00 Lbs.

TIMING GEAR PULLER

Has 6" yoke and 6-1/4" forcing screw. Screw has 1/2" hexagon head that can be turned with a wrench or socket and handle. A pair of 3/8"-16 x 3" hexagon head cap screws is furnished to handle most of tapped timing gears.

NO. 274

STD. PKG. 1—PKG. WT. 1.65 Lbs.

Parts: 274-1 Yoke—274-2 Screw—274-5 Bolt



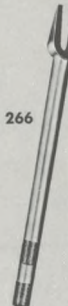
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290



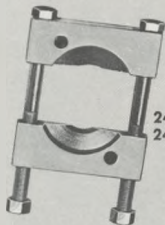
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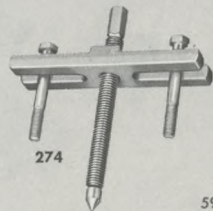
267



247
247H



274





GEAR PULLERS

2-1/4" GEAR PULLER

Medium duty type for external pulling of small gears or bearings. Maximum spread between arm points 1-7/8". Will pull a gear 2-1/4" diameter with 1 1/2" face. Can be used with two 295-3 arms for internal pulling by removing quick change pins. Forged alloy steel, chrome plated.

NO. 263

STD. PKG. 1—PKG. WT. 0.75 Lb.

3-1/2" GEAR PULLER

Medium duty for external pulling. Also can be adapted for internal use with two Number 296-3 Arms. Will pull a gear or bearing 3-1/2" diameter with 1-1/8" face width. Forged alloy steel, chrome plated.

NO. 264

STD. PKG. 1—PKG. WT. 1.38 Lbs.

PARTS FOR NO. 263 and NO. 264 PULLERS

NO. 263		NO. 264	
Body	293	Body	299
Screw	263-2	Screw	264-2
Arm	263-3	Arm	264-3
Bar	263-5	Bar	264-5
Pin	263-6	Pin	264-6

STD. PKG. 1

STD. PKG. 1

2-1/4" INTERNAL-EXTERNAL GEAR PULLER SET

Includes No. 263 Gear Puller and one pair of No. 295-3 Short Internal Arms. Ball and spring loaded pins for quick changing of arms. Will enter 3/4" hole and pull to 2" diameter. Length 4-1/2".

NO. 295

STD. PKG. 1—PKG. WT. 0.88 Lb.

3-1/2" INTERNAL-EXTERNAL GEAR PULLER SET

Includes No. 264 Gear Puller and one pair of No. 296-3 Long Internal Arms. Ball and spring loaded pins for quick changing of arms. Will enter hole as small as 1" diameter, can pull items as large as 3" diameter. Length 6-1/2".

NO. 296

STD. PKG. 1—PKG. WT. 1.65 Lbs.

FLANGE TYPE AXLE PULLER

Designed for easy removal of flange type rear axles on cars and light trucks. Can also be used as a regular wheel or hub puller. Yoke has four slots which will fit on either 4, 5 or 6 bolt (or studs) axles with up to 9/16" diameter bolts or studs. The EXTRA HEAVY sliding hammer part of this puller provides the power to remove the most stubborn axles. Cadmium plated and black oxide finish.

NO. 278

STD. PKG. 1—PKG. WT. 9.74 Lbs.

SPECIAL ATTACHMENTS FOR NO. 278 PULLER

PULLER YOKE

A special yoke designed to remove flange type axles on the Valiant and Lancer cars. Same design as the standard yoke on the No. 278 Puller, except for the smaller range. Can be used on either 4, 5 or 6 Bolt or Stud design. Cadmium plated.

NO. 278-6

STD. PKG. 1—PKG. WT. 1.78 Lbs.

PULLER ADAPTOR

For use with the No. 278 Puller to remove the rear axle shaft from Rambler and Chrysler Motor cars (except Valiant & Lancer). Adaptor is threaded 5/8"-18 in the center; 3/4"-16 on one end, and 7/8"-14 on the other end. These two sizes will cover most popular models with one adaptor instead of two. Cadmium plated.

NO. 278-7

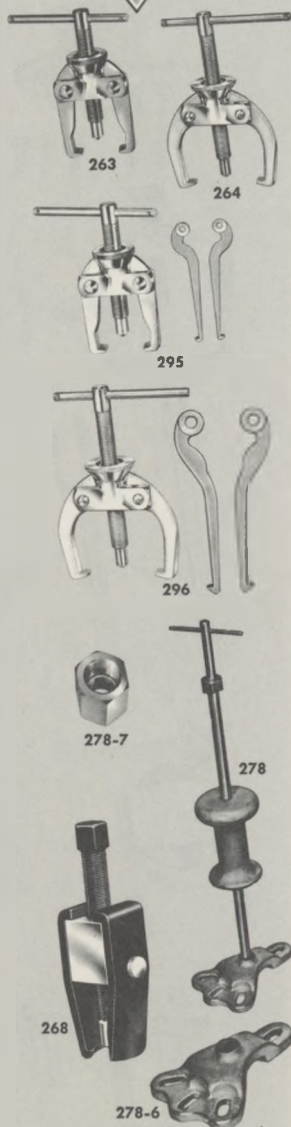
STD. PKG. 1—PKG. WT. 0.68 Lb.

PULLEY PULLER

Designed specifically to remove pressed-on 1 or 2 groove pulleys on alternators and power steering pumps. Also used for removing alternator bearings. The attached jaw fits over the flange affording a firm grip. Thumb screws adjust jaws. Turn center screw down for easy removal. Contrasting black oxide and cadmium plating.

NO. 268

STD. PKG. 1—PKG. WT. 1.75 Lbs.



SLIDE HAMMER

SLIDE HAMMER MASTER PULLER SET

A complete set of pullers and attachments for the utmost in utility. All of the essentials for removing gears, bearings, oil and grease seals, keepers, etc. Set includes No. 279 Hammer, No. 279B Sharp Hook, No. 279C Flat Hook, No. 293 Small Puller Body, No. 263-3 Short External Arms (2), No. 295-3 Short Internal Arms (2), No. 294 Large Puller Body, No. 279E Adaptor, No. 264-3 Long External Arms (2), No. 296-3 Long Internal Arms (2).

NO. 280 Puller Set

STD. PKG. 1—PKG. WT. 8.00 Lbs.

SLIDE HAMMER HANDLE ONLY

Very sturdily constructed, this tool is capable of doing fast and efficient pulling. The impact of the sliding hammer striking the bumping collar is transmitted to the opposite end where hooks or gear pullers are attached by means of threads and locknut. The slide is red baked enamel finish, all other parts are brightly plated. Length 25-1/2" overall.

NO. 279

STD. PKG. 1—PKG. WT. 4.50 Lbs.

SMALL PULLER BODY ONLY

Attaches directly to the slide hammer. With the addition of either short external or internal arms, various pulling jobs can be done. Body comes complete with cone for positioning arms and with quick action ball and spring loaded pins to permit changing arms. Brightly chrome plated.

NO. 293

STD. PKG. 1—PKG. WT. 0.25 Lb.

LONG INTERNAL ARM

In pairs with Large Puller Body and Slide Hammer Handle, arms will enter holes as small as 1" diameter and will pull recessed bearings, long bushings, etc. as large as 3" diameter bore. Forged alloy steel, chrome plated. Length overall 6-1/2".

NO. 296-3

STD. PKG. 1—PKG. WT. 0.25 Lb.

SHORT INTERNAL ARM

Used in pairs with the Small Puller Body, arms will enter a hole as small as 3/4" diameter and will pull bearings, sleeves, etc. having a bore up to 2" in diameter. Forged alloy steel and chrome plated. Length overall 4-1/2".

NO. 295-3

STD. PKG. 1—PKG. WT. 0.13 Lb.

SHARP HOOK ATTACHMENT

This hook is used for removing valve keys as well as cotter pins and small parts where larger tools cannot be used. Length 3-1/4" overall.

NO. 279B

STD. PKG. 1—PKG. WT. 0.13 Lb.

FLAT HOOK ATTACHMENT

Flat hook for pulling bushings, seals, bearings, etc. Length 3-5/8" overall.

NO. 279C

STD. PKG. 1—PKG. WT. 0.13 Lb.

ADAPTOR ONLY

Necessary to attach No. 294 Large Puller Body to Slide Hammer Handle.

NO. 279E

STD. PKG. 1—PKG. WT. 0.13 Lb.

LARGE PULLER BODY ONLY

Requires No. 279E Adaptor for attaching to slide hammer. Used with long external or internal arms, will handle a wide range of pulling jobs. Comes complete with adjusting cone and quick action pins. Brightly chrome plated.

NO. 294

STD. PKG. 1—PKG. WT. 0.30 Lb.

LONG EXTERNAL ARM

Used in pairs with Large Puller Body and Slide Hammer Handle—will pull gears and bearings up to 3-1/2" diameter by 1-1/8" wide. Arm is forged alloy steel, brightly chrome plated. Overall length 3-5/8".

NO. 264-3

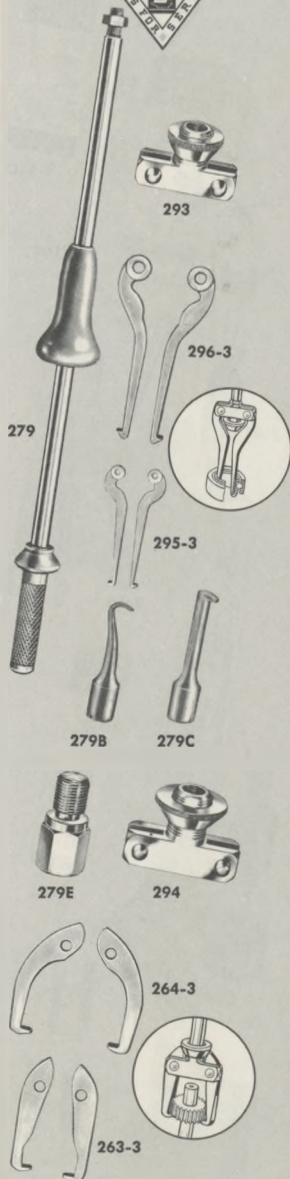
STD. PKG. 1—PKG. WT. 0.25 Lb.

SHORT EXTERNAL ARMS

Used in pairs with Small Puller Body and Slide Hammer Handle, will pull gears and bearings up to 2-1/4" diameter by 1/2" wide. Arm is forged for strength and brightly chrome plated. Overall length 2-7/8".

NO. 263-3

STD. PKG. 1—PKG. WT. 0.13 Lb.



INDESTRO



STAR NUT BRAKE ADJUSTING TOOLS

Designed of square stock to enable a firm, no slip grip. Ends of both tools notched to prevent slipping off adjusting wheel. Alloy steel, heat treated to lessen wear. Ends ground and polished. Chrome plated.

LONG PATTERN—9-1/2"

With side notched and ends angled to clear obstructions.

NO. 2161

STD. PKG. 6—PKG. WT. 2.19 Lbs.

NO. 2161C—Carded

STD. PKG. 6—PKG. WT. 2.41 Lbs.

SHORT PATTERN—6"

NO. 2162

STD. PKG. 6—PKG. WT. 1.56 Lbs.

NO. 2162C—Carded

STD. PKG. 6—PKG. WT. 1.70 Lbs.

BRAKE SPRING TOOLS

Brake shoe retaining spring tool for removing and replacing dish type washer. Knurled cup securely grips washer. Notched for washers with ears. Plastic handle.

NO. 2165

STD. PKG. 6—PKG. WT. 1.73 Lbs.

Brake spring tool has special socket for removing return spring. Opposite end designed for replacing spring. Brightly plated.

NO. 3430

STD. PKG. 6—PKG. WT. 2.50 Lbs.

BRAKE SPRING PLIERS

Two sizes available. Pointed jaw grips in shoe lining while hook draws spring into position. One handle has cam to remove spring from post. The other handle is grooved for replacing spring. Forged alloy steel. Chrome plated.

NO. 3427—Length 8-1/2"

STD. PKG. 3—PKG. WT. 1.50 Lbs.

NO. 3428—Length 13-1/2"

STD. PKG. 3—PKG. WT. 2.81 Lbs.

NO. 3428C—Length 13-1/2"—Carded

STD. PKG. 3—PKG. WT. 3.00 Lbs.

BRAKE AND CLUTCH LINING AND RIVETING SETS

Convenient hand tools for on-the-job pad or lining installation; repairing leather, canvas, plastic or metal objects. Use on most any job where rivets are required.

Deluxe set has frame which will clamp in vise, anvil, combination drill and countersink, punch for removing rivets and rivet clincher.

NO. 824

STD. PKG. 1—PKG. WT. 1.08 Lbs.

Utility set includes anvil, riveting punch, countersink and drill.

NO. 819

STD. PKG. 1—PKG. WT. 0.37 Lb.

STUD REMOVER

Eccentric roller grips stud firmly. Convenient and fast to use with 1/2" square drive handles. Heat treated alloy steel. Cadmium plated. Capacity 1/4" thru 3/4".

NO. 251

STD. PKG. 1—PKG. WT. 1.23 Lbs.

TUBING TOOLS



TUBING CUTTER

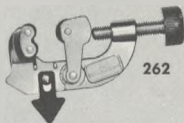
Improved design, cuts soft copper, brass and aluminum tubing with outside diameters from 1/8" to 1". Has swing-out, hardened burr reamer. Chrome plated.

NO. 262

STD. PKG. 1—PKG. WT. 0.65 lb.

NO. 262A—Cutting Wheel Only

STD. PKG. 6—PKG. WT. 0.08 lb.

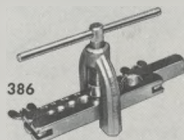


TUBING FLARING TOOL

Hinged bar type with large wing nuts for secure clamping. The hardened center punch and floating cone produce an accurate 45° flare. Has seven threaded dies to accommodate all popular sizes from 3/16" O.D. thru 5/8" O.D. tubing. Cadmium and black oxide finish.

NO. 386

STD. PKG. 1—PKG. WT. 2.04 Lbs.



PARTS FOR NO. 386

NO. 386-1—Bar Assembly

STD. PKG. 1—PKG. WT. 1.25 Lbs.

NO. 386-2—Yoke Assembly

STD. PKG. 1—PKG. WT. 1.00 lb.

NO. 386-11—Wing Nut

STD. PKG. 1—PKG. WT. 0.10 lb.

DOUBLE FLARING TOOL SET

Strong enough to make double flares in soft steel tubing up to .040" wall thickness. Will also make a single flare. Furnished with five adaptors in sizes 3/16", 1/4", 5/16", 3/8" and 1/2". The heavy duty alloy swivel is ground and chromed to reduce friction. The yoke is forged for added strength. Cadmium and black oxide. Packed in heavy duty steel box.

NO. 387

STD. PKG. 1—PKG. WT. 2.56 Lbs.



PARTS FOR NO. 387

NO. 387-1—3/16" Adaptor

NO. 387-5—1/2" Adaptor

NO. 387-2—1/4" Adaptor

NO. 387-6—Bar Assembly

NO. 387-3—5/16" Adaptor

NO. 387-7—Yoke Assembly

NO. 387-4—3/8" Adaptor

NO. 387-15—Wing Nut

STD. PKG. 1

COIL SPRING TUBING BENDERS

Hand bending without collapsing or distorting the tubing is made easy with these special tools. Made of heavy, coiled music wire, heavily plated.

NO. 241—For 1/4" O.D. Tubing

STD. PKG. 6—PKG. WT. 1.09 Lbs.

NO. 242—For 5/16" O.D. Tubing

STD. PKG. 6—PKG. WT. 1.41 Lbs.

NO. 243—For 3/8" O.D. Tubing

STD. PKG. 6—PKG. WT. 1.65 Lbs.

NO. 244—For 7/16" O.D. Tubing

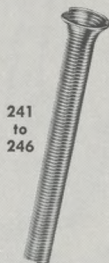
STD. PKG. 6—PKG. WT. 2.38 Lbs.

NO. 245—For 1/2" O.D. Tubing

STD. PKG. 6—PKG. WT. 2.69 Lbs.

NO. 246—For 5/8" O.D. Tubing

STD. PKG. 6—PKG. WT. 3.23 Lbs.



SET OF 6 BENDERS LISTED ABOVE

NO. 240-6

STD. PKG. 1—PKG. WT. 1.41 Lbs.

HACKSAW FRAMES

Pistol grip, made of heavy gauge steel for extra rigidity. Adjustable for 8" to 12" blades. Furnished with blade. Brightly plated.

NO. 9031

STD. PKG. 1—PKG. WT. 1.41 Lbs.

This deluxe hacksaw has one piece, "D" grip combined with 5/8" heavy gauge tubing frame. This rugged construction will give a lifetime of service. For 10" or 12" blades.

NO. 9035

STD. PKG. 1—PKG. WT. 1.13 Lbs.



HACKSAW BLADES

Medium cut, length 12", for general purpose usage.

NO. 9012A

STD. PKG. 12—PKG. WT. 1.00 lb.



SPECIAL PURPOSE TOOLS

FLEXIBLE MECHANICAL FINGER

A most useful tool for retrieving small parts, nuts, bolts and screws where the fingers cannot reach. Overall length 15" with 8" flexible section.

NO. 815

STD. PKG. 6—PKG. WT. 2.50 lbs.

FLEXIBLE DRIVER SET—1/4" SQUARE DRIVE

Complete set includes No. 2820-1 to No. 2820-5.

NO. 2820

STD. PKG. 1 —PKG. WT. 0.75 lb.

FLEXIBLE DRIVER

The flexible driver is 21" in length. The 3-1/2" flexible section permits bending of the tool around obstructions. In addition to the adaptors illustrated, the driver can be used with all 1/4" square drive sockets and fittings.

NO. 2820-1

STD. PKG. 6—PKG. WT. 2.90 lbs.

HOLLOW HEAD SET SCREW WRENCH ADAPTOR

1/8" size specifically designed to adjust Delco Remy Distributors. 1/4" square drive.

NO. 2820-2

STD. PKG. 6—PKG. WT. 0.50 lb.

CARBURETOR ADJUSTING ADAPTOR

For many late model G.M., Ford and Chrysler cars. 1/4" square drive.

NO. 2820-3

STD. PKG. 6—PKG. WT. 0.25 lb.

SCREW STARTER ADAPTOR

For use with slotted type screws. 1/4" square drive.

NO. 2820-4

STD. PKG. 6—PKG. WT. 0.25 lb.

MAGNET ADAPTOR

Powerful Alnico Magnet for retrieving nuts, bolts, screws and small steel parts from hard to reach places.

NO. 2820-5

STD. PKG. 6—PKG. WT. 0.50 lb.

MAGNET TOOLS

Used to retrieve small steel parts that fall into impossible places. Permanent Alnico Magnet head. Chrome plated.

6" Magnet Packet Tool with handy clip for shirt or jacket.

NO. 2552

STD. PKG. 6—PKG. WT. 0.50 lb.

9" Magnet Tool, only 5/16" in diameter for those hard to reach places. Head swings 120° in either direction. Has a plastic handle for non-slip grip.

NO. 2553

STD. PKG. 6—PKG. WT. 1.00 lb.

"Master" Magnet Tool telescopes from 17" to a full 26-1/2", easily picks up 3 lbs. Head swings 120° in either direction. Has a plastic handle for non-slip grip.

NO. 2554

STD. PKG. 4—PKG. WT. 2.50 lbs.

DOOR HANDLE CLIP REMOVER

This tool is designed for quick and easy removal of the door handle clip on the majority of Ford and G.M. cars. Tool is extra long and offset so as not to tear or mar the upholstery. Made of heavy gauge steel and cadmium plated.

NO. 2550

STD. PKG. 6—PKG. WT. 1.00 lb.

WHEEL COVER TOOL

Two tools in one. Removes hub caps and wheel covers. Soft rubber face is used to replace covers without denting them. Has a plastic handle for firmer grip.

NO. 2551

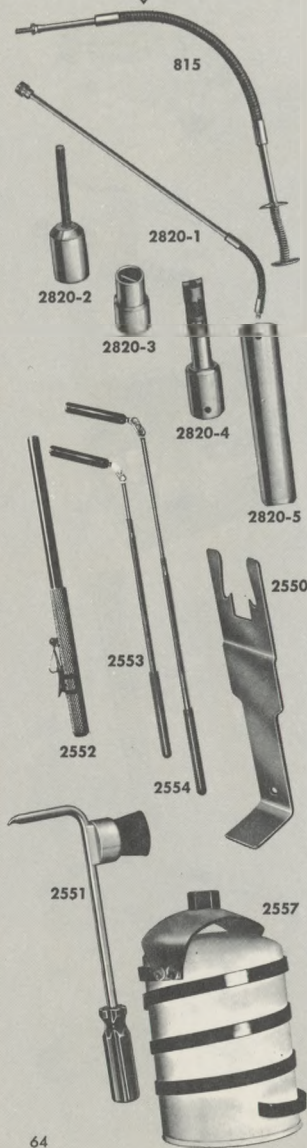
STD. PKG. 1—PKG. WT. 1.00 lb.

UNIVERSAL OIL FILTER WRENCH

The harder you turn this wrench, the tighter it grips. Works in restricted areas, won't crush filter. Use with any 3/4" wrench. Self ratcheting.

NO. 2557

STD. PKG. 1—PKG. WT. 0.75 lb.



SPECIAL PURPOSE TOOLS

QUALITY IGNITION FILES

Clean cutting, fine, Tungsten ignition files. Specially designed for distributor and other electrical contacts. Mounted 12 on a colorful display.

NO. 174-C12

STD. PKG. 1—PKG. WT. 0.25 Lb.

OFFSET DISTRIBUTOR WRENCHES

1/2" Distributor Wrench with proper angle for work on Ford, Lincoln and Mercury.

NO. 2023

STD. PKG. 6—PKG. WT. 3.00 Lbs.

9/16" Special Wrench for distributors on Chevrolet V-8 and Buicks. 12 point. Length 11-3/4".

NO. 2024

STD. PKG. 6—PKG. WT. 5.00 Lbs.

DRAWN SPARK PLUG SOCKET

2 piece, double end spark plug socket—consists of socket with two hexagon openings, 13/16" and 7/8", fits 14MM and 18MM spark plugs. Comes complete with "L" handle for easy turning of wrench.

NO. 3041

STD. PKG. 24—PKG. WT. 5.00 Lbs.

BATTERY SERVICE TOOLS

BATTERY TERMINAL CLAMP SPREADER

This handy tool is actually three tools in one. Spreads and cleans terminal clamp in one operation. Post cleaner is located on handle, length 7-1/2".

NO. 129

STD. PKG. 1—PKG. WT. 0.63 Lb.

TERMINAL CLAMP LIFTER

Even the most corroded terminals can be lifted with this heavy duty tool. The harder the pull, the tighter the jaws grip the clamp removing it effortlessly with no danger of damaging the battery.

NO. 130A

STD. PKG. 1—PKG. WT. 0.50 Lb.

TERMINAL LIFTER AND WRENCH

The forked end of this lifter slides under the clamp, a simple cam action then lifts the clamp from the post. Built into the handle of this Alloy tool is a 9/16" 12 point box wrench which fits most battery clamp nuts. Clamp spreader built in. Length 6-1/2".

NO. 648

STD. PKG. 6—PKG. WT. 2.00 Lbs.

TERMINAL AND POST CLEANER

Metal brush shaped to fit inside terminal clamps, removes corrosion quickly. Metal brush in base of tool is used to clean battery posts. Steel case with easy grip knurling. Length 3-3/8".

NO. 131

STD. PKG. 1—PKG. WT. 0.25 Lb.

WIRE HAND BRUSHES

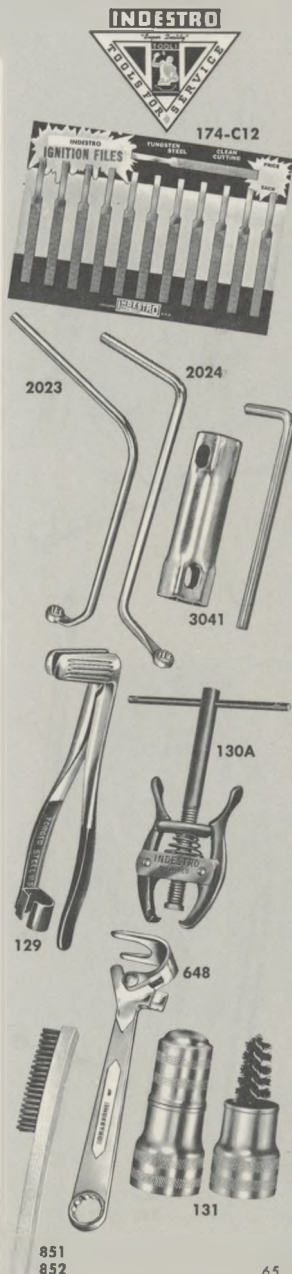
Stiff wire brushes for general use. Ideal for removing carbon, rust, paint, etc. Length 14" overall. 6-1/4" of bristle.

NO. 851—3 Row Brush

STD. PKG. 6—PKG. WT. 2.60 Lbs.

NO. 852—4 Row Brush

STD. PKG. 6—PKG. WT. 3.50 Lbs.





RIM WRENCHES, MUFFLER AND PANEL CUTTERS

DOUBLE END TRUCK RIM WRENCHES

Heavy duty, forged steel. Broached to accept cross bar No. 447. Bright red enamel. Length 16".

7/8" HEX AND 1-1/16" HEX

Fits Mack, Federal, Diamond T, International and others.

NO. 449

STD. PKG. 1—PKG. WT. 4.00 Lbs.

7/8" HEX WITH 5/8" SQUARE AND 1-1/4" HEX

Fits Chevrolet dual, Mack and others.

NO. 452

STD. PKG. 1—PKG. WT. 4.31 Lbs.

1-1/8" HEX WITH 13/16" SQUARE AND 1-1/2" HEX

Fits Ford dual, Budd, Dodge and others.

NO. 453

STD. PKG. 1—PKG. WT. 4.72 Lbs.

7/8" HEX AND 15/16" HEX

Fits Chevrolet light and heavy series.

NO. 457

STD. PKG. 1—PKG. WT. 3.74 Lbs.

15/16" HEX AND 1" HEX

Fits later model Chevrolet and others.

NO. 459

STD. PKG. 1—PKG. WT. 4.03 Lbs.

CROSS BAR

For use with wrenches 449, 452, 453, 457 and 459. Length 20".

NO. 447

STD. PKG. 1—PKG. WT. 2.82 Lbs.

CROSS RIM WRENCHES

HEAVY DUTY TRUCK WRENCH

Hex openings 7/8", 1-1/16", 1-3/16", 1-1/4" and 1-1/2" and 13/16" square. Forged steel, heat treated, bright red enamel. Length 24".

NO. 455

STD. PKG. 1—PKG. WT. 10.21 Lbs.

DELUXE PASSENGER CAR WRENCH

20" long with hex openings 3/4", 13/16", 7/8" and 15/16". Forged alloy steel. Bright red enamel.

NO. 446A

STD. PKG. 6—PKG. WT. 24.00 Lbs.

STANDARD PASSENGER CAR WRENCHES WELDED, HEAT TREATED AND PAINTED

14" with openings 3/4", 11/16", 13/16" and 19MM.

NO. 620A

STD. PKG. 25—PKG. WT. 50.00 Lbs.

20" with openings 3/4", 3/4", 13/16" and 7/8".

NO. 622

STD. PKG. 25—PKG. WT. 82.00 Lbs.

MUFFLER, TAIL PIPE AND PANEL CUTTERS

Patented "curl-cut" feature forces metal away from cut. Proper offset to eliminate bruised fingers. Forged from alloy steel, heat treated, ground and plated. Auto body panel or sheet metal cutter.

NO. 162—3/8" x 10"

STD. PKG. 6—PKG. WT. 2.66 Lbs.

TAIL PIPE AND MUFFLER CUTTERS

NO. 163—Long—1/2" x 10-1/4"

STD. PKG. 6—PKG. WT. 2.93 Lbs.

NO. 165—Short 1/2" x 7-7/8"

STD. PKG. 6—PKG. WT. 2.76 Lbs.

NO. 164—Handle Type—1/2" x 5"

STD. PKG. 6—PKG. WT. 4.68 Lbs.

447

449
452
453
457
459

455

446A
620A
622

162

163

165

164

STEEL V-BELT PULLEYS

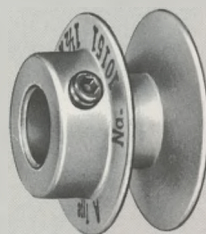
Made of select quality solid steel or heavy gauge sheet steel. Edges of stamped steel pulleys are full rolled for ease of belt installation and safety. The hub made of solid steel is locked to the two flanges by a unique design and the flanges are electrically welded producing a pulley of unyielding strength and rigidity. All pulleys are precision balanced and true running; extremely safe for even high speed continuous operation. Each pulley has a 5/16"-18 thread hollow head set screw installed for fast, easy and tight adjustment on shaft. Finished in a rustproof, bright aluminum color. These pulleys are packed in yellow cartons, both the pulley and carton are imprinted with catalog number, diameter and bore size for quick and easy identification. All pulleys 5/8" and 3/4" bore over 1-1/2" diameter have standard slotted keyways.

"A" SECTION (FOR 1/2" V-BELTS)

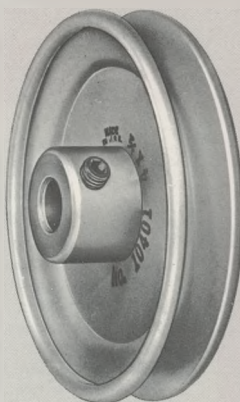
No.	Dia.	Bore	Pkg. Wt. Lbs.
SOLID STEEL			
10151	1-1/2"	1/2"	0.22
10152	1-1/2"	5/8"	0.22
10201	2"	1/2"	0.37
10202	2"	5/8"	0.37
STAMPED STEEL			
10251	2-1/2"	1/2"	0.53
10252	2-1/2"	5/8"	0.53
10253	2-1/2"	3/4"	0.53
10301	3"	1/2"	0.63
10302	3"	5/8"	0.63
10303	3"	3/4"	0.63
10351	3-1/2"	1/2"	0.75
10352	3-1/2"	5/8"	0.75
10353	3-1/2"	3/4"	0.75
10401	4"	1/2"	0.88
10402	4"	5/8"	0.88
10403	4"	3/4"	0.88
10451	4-1/2"	1/2"	0.94
10452	4-1/2"	5/8"	0.94
10453	4-1/2"	3/4"	0.94
10501	5"	1/2"	1.00
10502	5"	5/8"	1.00
10503	5"	3/4"	1.00
10551	5-1/2"	1/2"	1.25
10552	5-1/2"	5/8"	1.25
10553	5-1/2"	3/4"	1.25
10601	6"	1/2"	1.50
10602	6"	5/8"	1.50
10603	6"	3/4"	1.50
10651	6-1/2"	1/2"	1.75
10652	6-1/2"	5/8"	1.75
10653	6-1/2"	3/4"	1.75
10801	8"	1/2"	2.25
10802	8"	5/8"	2.25
10803	8"	3/4"	2.25

"B" SECTION (FOR 5/8" V-BELTS)

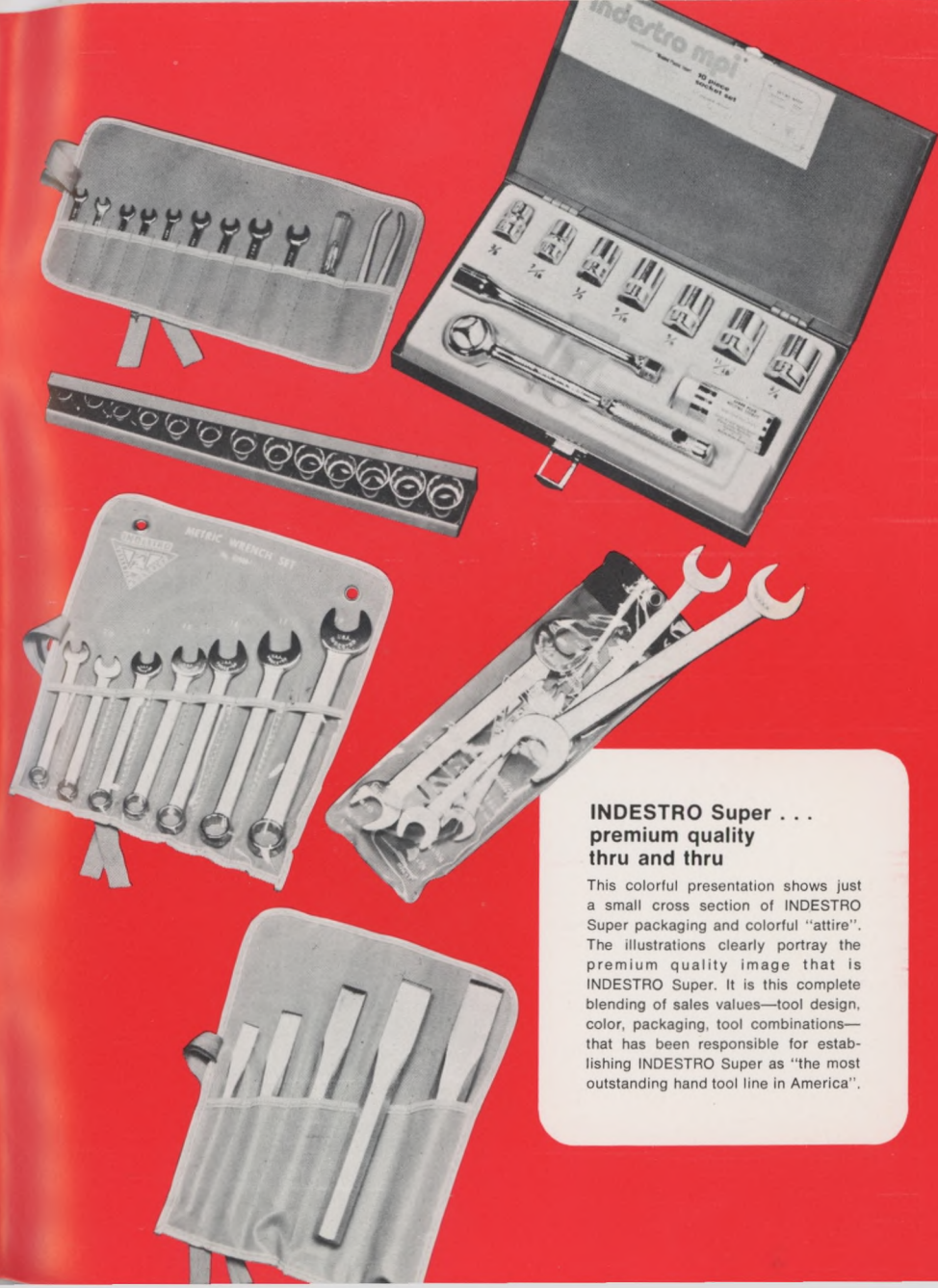
No.	Dia.	Bore	Pkg. Wt. Lbs.
SOLID STEEL			
11151	1-1/2"	1/2"	0.22
11152	1-1/2"	5/8"	0.22
11201	2"	1/2"	0.37
11202	2"	5/8"	0.37
11251	2-1/2"	1/2"	0.53
11252	2-1/2"	5/8"	0.53
11253	2-1/2"	3/4"	0.53
11301	3"	1/2"	0.63
11302	3"	5/8"	0.63
11303	3"	3/4"	0.63
STAMPED STEEL			
11351	3-1/2"	1/2"	0.75
11352	3-1/2"	5/8"	0.75
11353	3-1/2"	3/4"	0.75
11401	4"	1/2"	0.88
11402	4"	5/8"	0.88
11403	4"	3/4"	0.88
11451	4-1/2"	1/2"	0.94
11452	4-1/2"	5/8"	0.94
11453	4-1/2"	3/4"	0.94
11501	5"	1/2"	1.00
11502	5"	5/8"	1.00
11503	5"	3/4"	1.00
11551	5-1/2"	1/2"	1.25
11552	5-1/2"	5/8"	1.25
11553	5-1/2"	3/4"	1.25
11601	6"	1/2"	1.50
11602	6"	5/8"	1.50
11603	6"	3/4"	1.50
11651	6-1/2"	1/2"	1.75
11652	6-1/2"	5/8"	1.75
11653	6-1/2"	3/4"	1.75
11801	8"	1/2"	2.25
11802	8"	5/8"	2.25
11803	8"	3/4"	2.25



SOLID STEEL



STAMPED STEEL



**INDESTRO Super . . .
premium quality
thru and thru**

This colorful presentation shows just a small cross section of INDESTRO Super packaging and colorful "attire". The illustrations clearly portray the premium quality image that is INDESTRO Super. It is this complete blending of sales values—tool design, color, packaging, tool combinations—that has been responsible for establishing INDESTRO Super as "the most outstanding hand tool line in America".



manufacturers
of quality tools
for over 50 years

INDESTRO MANUFACTURING CORP.
2649 N. KILDARE AVE.
CHICAGO, ILL. 60639, U.S.A.